DEP-090

New Jersey Department of Environmental Protection
COMMUNICATIONS CENTER NOTIFICATION REPORT

Received 11/12/1998 **Td Log#** 34593

Operator PAT **CaseNumber #** 98-11-12-0857-49

Notification Type Facility

Reported By DANIEL BARRETT **Affiliation** T&M ASSOC **Phone** 732-671-6400

Street Address 11 TINBALL RD **Municipality** MIDDLETOWN **State** NJ

IncidentLocation Other **Other Location**

Site SPRING LAKE DPW **Phone**

Street 5TH & MONMOUTH AVES **Municipality** SPRING LAKE **County** MONMOUTH **State** NJ

Type Commercial **Incident Date** 9/8/1998 **Time**

Substance ID	Substance Released	CAS Number	State	Amount Released	HAZMAT	TCPA	Release Verified	Substance Contained	Release Is?
Known	GASOLINE		Liquid	0	UNKNOWN	Y	N	Yes	Terminated

COMU Code 1348 **Referral Code** 101 **A310 Letter?** Yes

Incident Description Underground Storage Tank

Injuries? No **Public Evac?** No **Facility Evac?** No **Public Exposure?** No

Police On Scene? No **Firemen On Scene?** No **DEP Requested?** No **Road Closed** No

Wind Speed/Direction 0 **Contamination** Land **Receiving Water**

Status At Scene ONE 1000 GAL UST REMOVED. SAMPLES SHOW CONTAMINATION. UST#0097365 NO TMS#.

Responsible Party Known

Party SPRING LAKE DPW **Phone** 732-449-0800

Contact ROBERT WINEMILLER **Title**

Street Address 5TH & WARREN AVES **Municipality** SPRING LAKE **County** MONMOUT **State** NJ

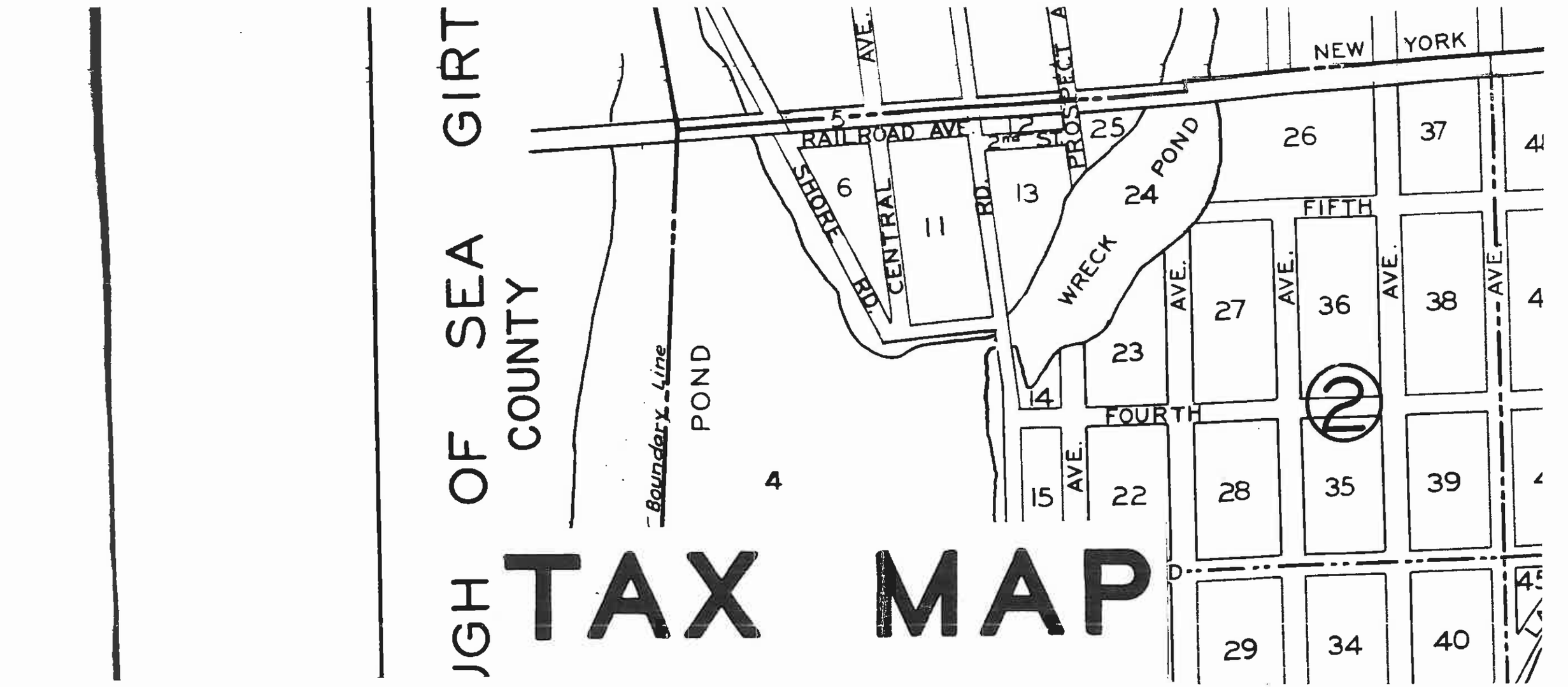
OFFICIALS NOTIFIED

Official Type	Name	Affiliation	Method	Phone	Date	Time
BFO-CAS		DRPSR	Faxed, Mailed		11/12/199	
MUNIC	SPRING LAKE BOROUG	OPR 113	Office	732-449-1234	11/12/199	0901

COMMENTS

Electronic Reproduction of Actual Incident Report

NOTICE: This information represents an alleged incident notification; and as such, can not be taken as valid or confirmed.



TAX MAP

BOROUGH OF SPRING LAKE

MONMOUTH COUNTY, NEW JERSEY

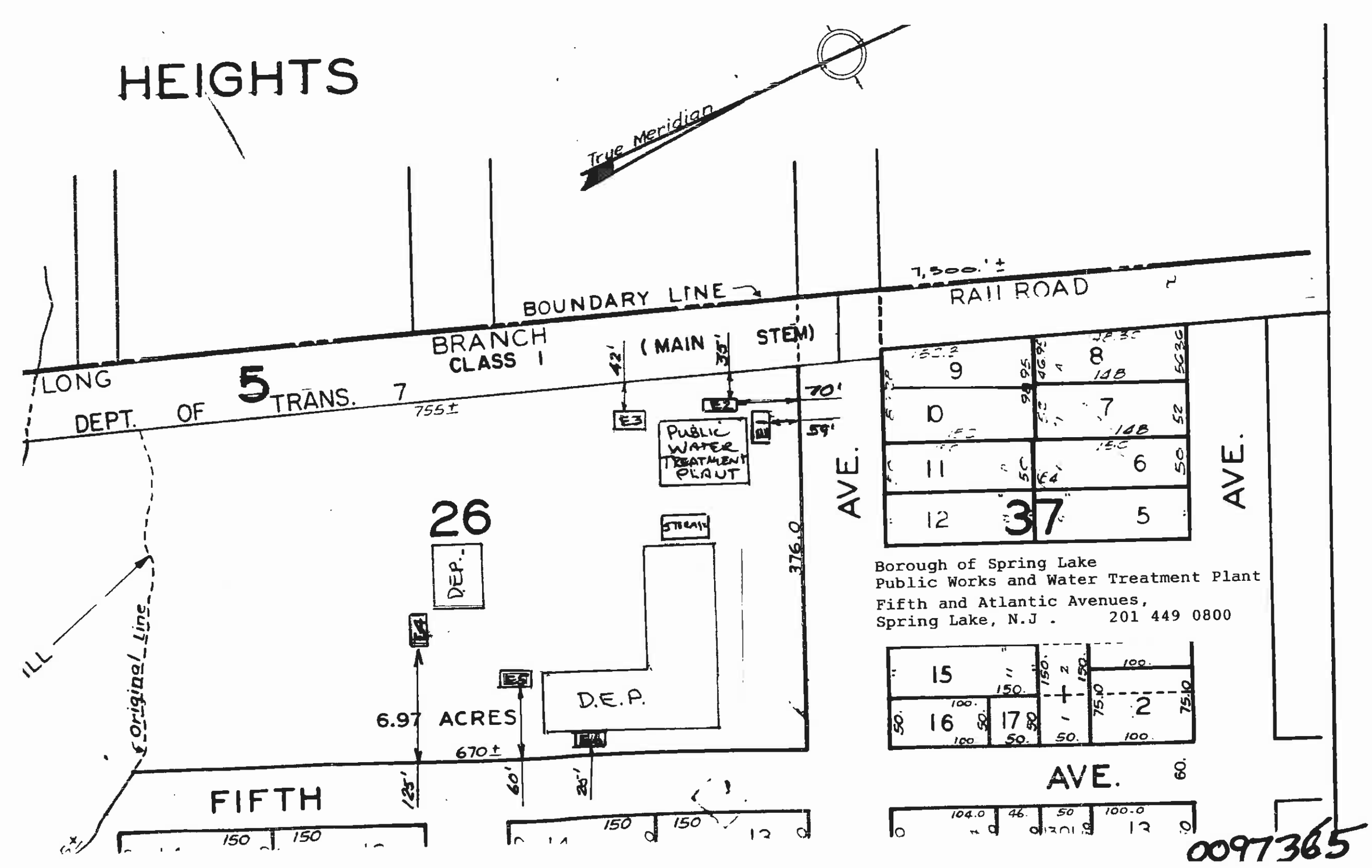
SCALE IN FEET

0 100 400 2000

DST

009136

UST 9736


HEIGHTS
True Meridian
BOUNDARY LINE
7,500.'±
RAIl ROAD
BRANCH
CLASS 1
(MAIN STEM)
LONG
DEPT. OF TRANS. 7
5
755±
42'
35'
70'
59'
E1
E2
E3
E4
E5
E6
PUBLIC WATER TREATMENT PLANT
26
DEP.
STREAM
376.0
AVE.
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8
10
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6
12
37
5
AVE.
Borough of Spring Lake
Public Works and Water Treatment Plant
Fifth and Atlantic Avenues,
Spring Lake, N.J . 201 449 0800
ILL
Original Line
6.97 ACRES
D.E.P.
670±
125'
60'
20'
FIFTH
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16
17
2
AVE.
60.
150
100
104.0
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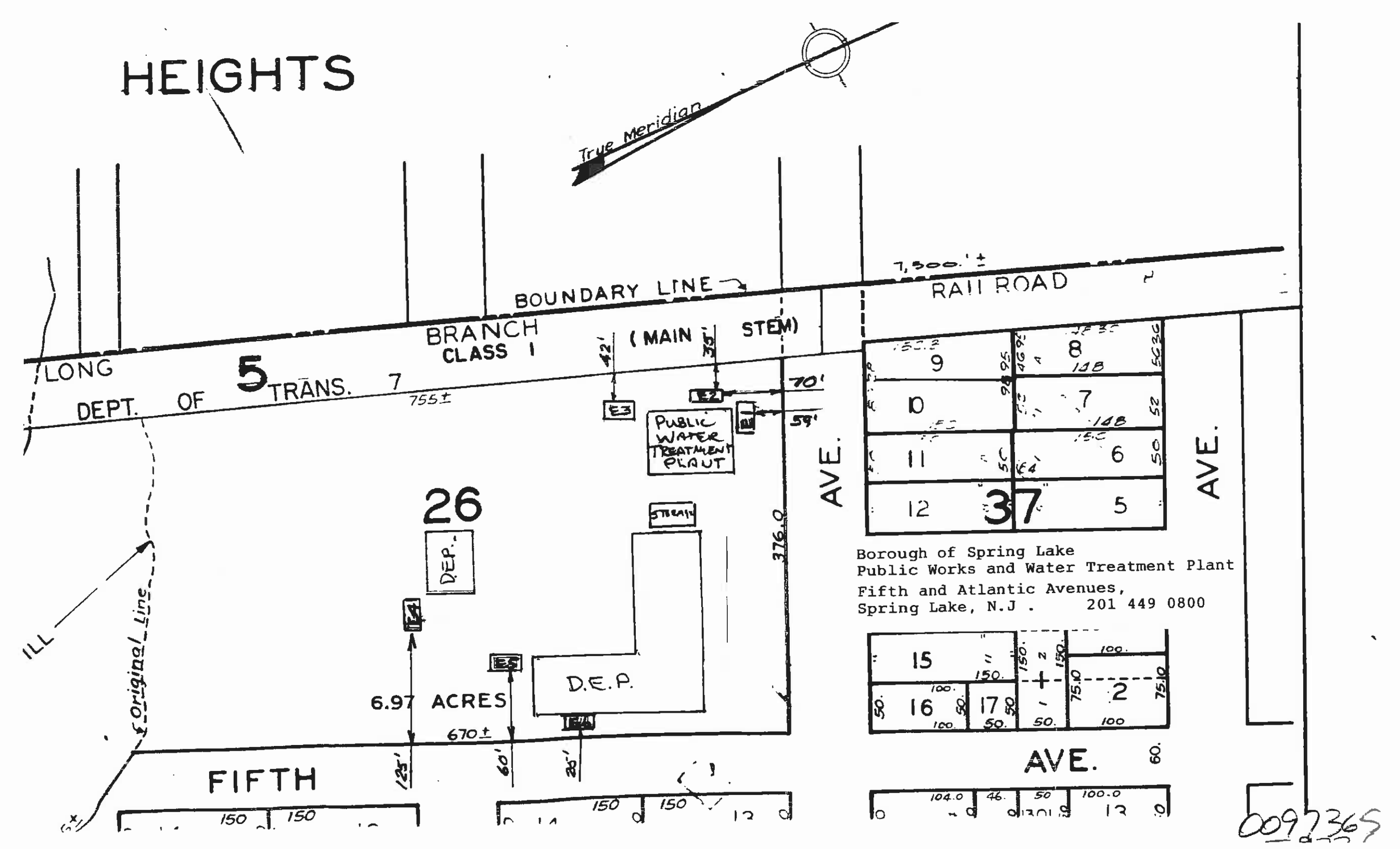
50
100.0
0097365


HEIGHTS
True Meridian
BOUNDARY LINE
7,500'±
RAIL ROAD
BRANCH
CLASS 1
(MAIN STEM)
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755±
42'
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PUBLIC WATER TREATMENT PLANT
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Spring Lake, N.J . 201 449 0800
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0097365

Complete
10/19 OCT 0 1 1999

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
Underground Storage Tanks
Registration and Billing Unit
PO Box 028, Trenton, N.J. 08625-0028
1-609-633-0719

FOR STATE USE ONLY
Check In ☐ Yes ☐ No
STATUS Active ☐ Inactive ☐ COMCOD: ☐☐☐

UNDERGROUND STORAGE TANK FACILITY CERTIFICATION QUESTIONNAIRE

FACILITY UST # 0097365

Completion of this Registration Questionnaire will satisfy the registration requirements of the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21, and the Registration and Billing Regulations N.J.A.C. 7:14B-2.

Check appropriate box

A. ☐ This is a registration of a proposed or newly installed underground storage tank. (This form must be filed at least 30 days prior to operation)
B. ☒ This is a registration of an existing underground storage tank not presently registered.
C. ☒ This is a correction or amendment to an existing facility registration.
D. ☐ There have been no changes to the facility registration since last submittal. (Go to certification page for signature)

If "C" is checked above, please check the appropriate type of change(s) below

☐ Facility Name and/or Address Change
☐ Owner Name and/or Address Change
☐ Facility Operator and/or Address Change
☐ Owner Contact Person Change
☐ Type of Product(s) Stored
☐ Substantial Modification(s)
☐ Tank(s) and/or Piping Changes
☒ Closure (Complete Section B Questions 1,4,5,11,12)
☐ Financial Responsibility Change
☐ Sale or Transfer (Complete Section A, Questions 4,5,6 & Section B, 12D)
☐ Other *(please specify)* _____

SECTION A - GENERAL FACILITY INFORMATION

1. Facility Name: DEPARTMENT OF PUBLIC WORKS
2. Facility Location: FIFTH AND MONMOUTH AVENUES
NUMBER AND STREET: BOROUGH OF SPRING LAKE
CITY OR MUNICIPALITY: MONMOUTH | NJ | 07726- | | BLOCK: 26 | LOT: 1
COUNTY | STATE | ZIP CODE

3. Facility Operator: ROBERT WINEMILLER | Contact Tele. No.: 732 449 0800
PERSON OR TITLE | (Area Code) | (Extension)

Operator Address (if different than #2): _____
NUMBER AND STREET
CITY OR MUNICIPALITY
STATE | ZIP CODE

4. Tank Owner: BOROUGH OF SPRING LAKE
5. Tank Owner Address: FIFTH AND WARREN AVENUES
NUMBER AND STREET
SPRING LAKE
CITY OR MUNICIPALITY
NJ | 07726-
STATE | ZIP CODE

6. Contact Person (Tank Owner): ROBERT WINEMILLER | Contact Tele. No.: 732 449 0800
(Area Code) | (Extension)

7. EPA ID#: NJD986609998

c. Total regulated underground storage tank capacity at facility (gallons)

10. Facility Type: A ☐ State; B ☐ Commercial/ Industrial; C ☒ County/Municipal; D ☐ Federal; E ☐ Charitable / Public School; F ☐ Residential; G ☐ Other; H ☐ Farm (as defined in N.J.S.A. 54:4-23.1 et seq.)

NOTE: The facility site plan must be submitted when registering any underground storage tank pursuant to N.J.A.C. 7:14B 2.2.

SECTION B - SPECIFIC TANK INFORMATION

ALL underground tanks, including those taken out of operation (UNLESS THE TANK WAS REMOVED FROM THE GROUND PRIOR TO 9/3/86) must be registered. Report all tank/piping status changes.

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
1. Tank Identification Number	E 7	E 8			
2. CAS Number (hazardous substances only)					
3. Date Tank Installed (Month/Day/Year)	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year
4. Tank Size (gallons)	2,000	750			
5. Tank Contents (Mark one "X" for each tank)					
A. Leaded gasoline					
B. Unleaded gasoline					
C. Alcohol enriched gasoline					
D. Light diesel fuel (No. 1-D)					
E. Medium diesel fuel (No. 2-D)					
F. Waste oil					
G. Kerosene (No. 1)					
H. Home heating oil (No. 2)	X	X			
J. Heating oil (No. 4)					
K. Heavy heating oil (No. 6)					
L. Aviation fuel					
M. Motor oil					
N. Lubricating oil					
P. Other hazardous substances (specify)					
Q. Hazardous waste (specify ID number)					
R. Mixtures (please specify)					
S. Emergency spill tank (specify substance)					
T. Other petroleum products (please specify)					
U. Other (please specify)					

6. Tank & Piping Construction (Mark one each for tank and piping)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Bare steel	X	X	X	X						
B. Cathodically protected metal										
1. Sacrificial anode										
2. Impressed current										
C. Fiberglass-coated steel										
D. Fiberglass-reinforced plastic										
E. Internally lined										
F. Pressurized piping										
G. Suction piping		X		X						
H. Other (please specify)										
7. Tank & Piping Structure (Mark one each for tank & piping)										
A. Single wall	X	X	X	X						
B. Double wall										
C. Other (please specify)										
8. Type of Monitoring/Detection (Mark all that apply for tank & piping)										
A. Statistical inventory reconciliation										
B. Manual tank gauging										
C. Inventory control										
D. Interstitial										
E. Tightness test										
F. Ground water observation wells										
G. Vapor observation wells										
H. In-tank (automatic monitoring gauge)										
J. "Safe" suction piping (piping only) see definition page 4										
K. In-line electronic pressure monitor (piping only) see definition page 4										
L. Automatic line leak detector (piping only)										
M. None (tank & piping)	X		X							
N. Other (please specify)										

Tank Identification Number	TANK NO. E 7	TANK NO. E 8	TANK NO.	TANK NO.	TANK NO.
9. Overfill protection (tank only) (Mark one X for each tank)	Tank	Tank	Tank	Tank	Tank
A. Yes					
B. No	X	X			
10. Spill containment around fill pipe (Mark one X for each tank)					
A. Yes					
B. No	X	X			
11. Tank status (Mark one X for each tank system)					
A. In-use					
B. Empty less than 12 mos. (complete 12B)					
C. Empty 12 mos. or more (complete 12B)					
D. Sump (contains products no more than 48 hours)					
E. Emergency back-up generator tank					
F. Abandoned in place					
G. Removed	X	X			
H. Other (Please specify)					

12. Closure Information - Tank ID No.	TANK NO. E 7			TANK NO. E 8			TANK NO.			TANK NO.			TANK NO.		
	Mo.	Day	Year	Mo.	Day	Year	Mo.	Day	Year	Mo.	Day	Year	Mo.	Day	Year
A. Date abandoned in place															
B. Date taken out of service															
C. Date removed	09	01	1998	09	11	1998									
D. Date of sale or transfer															
E. Closure # (if applicable)															
F. ISRA # (if applicable)															
13. Is the tank within wellhead protection area as defined on pg. 4 (Mark one X for each tank)															
A. Yes															
B. No															

SECTION C - FINANCIAL RESPONSIBILITY

Does this facility have a Financial Responsibility Assurance Mechanism as required in 40 CFR 280? ☐ YES ☐ NO

Please list the appropriate financial information below:

_____ Type

_____ Carrier/Issuing Agency

____ / ____ / ____ Effective Date

____ / ____ / ____ Expiration Date

_____ Policy Number

$_____ Amount

SECTION D - MONITORING SYSTEMS

Does this facility have a release detection monitoring system which is in compliance with N.J.A.C. 7:14B-6? ☐ YES ☐ NO

If "No", please be aware that the facility must meet the appropriate deadline. (See "Dates to Know" on Page 4)

SECTION E - RECORD KEEPING / COMPLIANCE

Please answer all the questions in this section on a facility basis. Any one tank not in compliance requires a "NO" answer for the entire facility.

1. Does this facility have cathodic protection systems for all steel tanks and piping? ☐ YES ☐ NO
   If "Yes", are the systems properly operated and maintained pursuant to N.J.A.C. 7:14B-5.2? ☐ YES ☐ NO
2. Are the performance claims and documentation of monitoring systems maintained by the owner or operator pursuant to N.J.A.C. 7:14B-6.7? ☐ YES ☐ NO
3. Are the proper monitoring, testing, sampling, repair and inventory records kept on-site pursuant to N.J.A.C. 7:14B-5 and 6? ☐ YES ☐ NO
4. Is the proper Release Response Plan kept on-site pursuant to N.J.A.C. 7:14B-5.5? ☐ YES ☐ NO
5. Does the facility have spill and overfill protection systems pursuant to N.J.A.C. 7:14B-4? ☐ YES ☐ NO
6. Have all Fill Ports been permanently marked per API #1637 pursuant to N.J.A.C. 7:14B-5.8? ☐ YES ☐ NO

IMPORTANT INFORMATION

FEE: Please make checks payable to: "Treasurer, State of New Jersey". Use of the enclosed return envelope will expedite processing. Registration and Billing Schedule can be found in N.J.A.C. 7:14B-3. All Initial Registration fees are $100 per facility. (See N.J.A.C. 7:14B-3.1 and 3.2(c).

PENALTY: Failure by owner or operator of a regulated underground storage tank to comply with any requirement of the State UST Act or regulations may result in the penalties set forth in N.J.S.A. 58:10A-12.

EMERGENCY: If a discharge or spill occurs, the NJDEP Hotline at (609) 292-7172 must be called IMMEDIATELY - 24 hours a day

T&M ASSOCIATES

ELEVEN TINDALL ROAD MIDDLETOWN NEW JERSEY 07748-2792
(732) 671-6400 • FAX (732) 671-7365 • www.tandmassociates.com • info@tandmassociates.com

September 29, 1999

SPLK-00060

New Jersey Department of Environmental Protection
Division of Responsible Party Site Remediation
Bureau of Underground Storage Tanks-Registration and Billing Unit
P.O. Box 028
Trenton, NJ 08625-0028

Re: UST #0097365; Closure #N98-1101

Dear Sir/Madam:

Enclosed is the *UST Facility Certifaction Questionnaire* for the above referenced site.

The facility questionnaire is to register and close the two tanks listed (tanks E7 and E8). All other tanks have previously been addressed with a facility questionnaire. In reference to a telephone conversation between Dan Barrett of my office and Patricia Wilbon with the NJDEP, this will not require any fees and the site is currently paid up to 2000. As there are no longer underground storage tanks at the site, the facility will not need to continue their UST registration past 2000 at this time.

If you have any questions, please call.

Very truly yours,

T&M ASSOCIATES

JOHN E. VANDERSLICE, P.G.
PRINCIPAL HYDROGEOLOGIST

JEV:DPB:sec
Enclosures
cc: Thomas J. Byrne III, Mayor
Mary Anne Coogan, Borough Clerk
Wayne Patterson, Councilman
H:\SPLK00060\BUST2.DOC

ENGINEERS · PLANNERS · LANDSCAPE ARCHITECTS · ENVIRONMENTAL SCIENTISTS · SURVEYORS
MIDDLETOWN · TOMS RIVER

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
Underground Storage Tanks
Registration and Billing Unit
PO Box 028, Trenton, N.J. 08625-0028
1-609-633-0719

completed 12-16-98

FOR STATE USE ONLY
Check In ☐ Yes ☐ No
STATUS Active ☐ Inactive ☐ COMCODE ☐☐☐☐

UNDERGROUND STORAGE TANK FACILITY CERTIFICATION QUESTIONNAIRE

FACILITY UST # 0097365

Completion of this Registration Questionnaire will satisfy the registration requirements of the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21, and the Registration and Billing Regulations N.J.A.C. 7:14B-2.

Check appropriate box

A. ☐ This is a registration of a proposed or newly installed underground storage tank. (This form must be filed at least 30 days prior to operation)
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If "C" is checked above, please check the appropriate type of change(s) below

☐ Facility Name and/or Address Change
☐ Owner Name and/or Address Change
☐ Facility Operator and/or Address Change
☐ Owner Contact Person Change
☐ Type of Product(s) Stored
☐ Substantial Modification(s)
☐ Tank(s) and/or Piping Changes
☒ Closure (Complete Section B Questions 1,4,5,11,12)
☐ Financial Responsibility Change
☐ Sale or Transfer (Complete Section A, Questions 4,5,6 & Section B, 12D)
☐ Other *(please specify)* _____

SECTION A - GENERAL FACILITY INFORMATION

1. Facility Name: DEPARTMENT OF PUBLIC WORKS
2. Facility Location: FIFTH AND MONMOUTH AVENUES
NUMBER AND STREET
BOROUGH OF SPRING LAKE
CITY OR MUNICIPALITY
MONMOUTH COUNTY | NJ STATE | 07762- ZIP CODE | BLOCK 26 | LOT 1

3. Facility Operator: ROBERT WINEMILLER
PERSON OR TITLE
Contact Tele. No. 732 449 0800 (Area Code) (Extension)
Operator Address (if different than #2)
NUMBER AND STREET
CITY OR MUNICIPALITY
STATE ZIP CODE

4. Tank Owner: BOROUGH OF SPRING LAKE
5. Tank Owner Address: FIFTH AND WARREN AVENUES
NUMBER AND STREET
SPRING LAKE
CITY OR MUNICIPALITY
NJ STATE 07762- ZIP CODE

6. Contact Person (Tank Owner): ROBERT WINEMILLER
Contact Tele. No. 732 449-0800 (Area Code) (Extension)

7. EPA ID# NJD986609998

8. Total number of regulated underground storage tanks at facility: 5

c Total regulated underground storage tank capacity at facility (gallons) 7,000

10 Facility Type: A ☐ State B ☐ Commercial/ Industrial C ☒ County/Municipal D ☐ Federal E ☐ Charitable / Public School F ☐ Residential G ☐ Other H ☐ Farm (as defined in N.J.S.A. 54:4-23.1 et seq.)

NOTE: The facility site plan must be submitted when registering any underground storage tank pursuant to N.J.A.C. 7:14B 2.2.

SECTION B - SPECIFIC TANK INFORMATION

ALL underground tanks, including those taken out of operation (UNLESS THE TANK WAS REMOVED FROM THE GROUND PRIOR TO 9/3/86) must be registered. Report all tank/piping status changes.

1. Tank Identification Number	TANK NO. E1	TANK NO. E2	TANK NO. E4	TANK NO. E5	TANK NO. E6
2. CAS Number (hazardous substances only)					
3. Date Tank Installed (Month/Day/Year)	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year
4. Tank Size (gallons)	2,000	1,000	1,000	1,000	1,000
5. Tank Contents (Mark one "X" for each tank)					
A. Leaded gasoline				X	
B. Unleaded gasoline		X			
C. Alcohol enriched gasoline					
D. Light diesel fuel (No. 1-D)					
E. Medium diesel fuel (No. 2-D)	X		X		
F. Waste oil					X
G. Kerosene (No. 1)					
H. Home heating oil (No. 2)					
J. Heating oil (No. 4)					
K. Heavy heating oil (No. 6)					
L. Aviation fuel					
M. Motor oil					
N. Lubricating oil					
P. Other hazardous substances (specify)					
Q. Hazardous waste (specify ID number)					
R. Mixtures (please specify)					
S. Emergency spill tank (specify substance)					
T. Other petroleum products (please specify)					
U. Other (please specify)					
6. Tank & Piping Construction (Mark one each for tank and piping)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Bare steel					
B. Cathodically protected metal					
1. Sacrificial anode					
2. Impressed current					
C. Fiberglass-coated steel					
D. Fiberglass-reinforced plastic					
E. Internally lined					
F. Pressurized piping					
G. Suction piping					
H. Other (please specify)					
7. Tank & Piping Structure (Mark one each for tank & piping)					
A. Single wall					
B. Double wall					
C. Other (please specify)					
8. Type of Monitoring/Detection (Mark all that apply for tank & piping)					
A. Statistical inventory reconciliation					
B. Manual tank gauging					
C. Inventory control					
D. Interstitial					
E. Tightness test					
F. Ground water observation wells					
G. Vapor observation wells					
H. In-tank (automatic monitoring gauge)					
J. "Safe" suction piping (piping only) see definition page 4					
K. In-line electronic pressure monitor (piping only) see definition page 4					
L. Automatic line leak detector (piping only)					
M. None (tank & piping)					
N. Other (please specify)					

Tank Identification Number	TANK NO. E1	TANK NO. E2	TANK NO. E4	TANK NO. E5	TANK NO. E6
9. Overfill protection (tank only) (Mark one X for each tank)	Tank	Tank	Tank	Tank	Tank
A. Yes					
B. No					
10. Spill containment around fill pipe (Mark one X for each tank)					
A. Yes					
B. No					
11. Tank status (Mark one X for each tank system)					
A. In-use					
B. Empty less than 12 mos. (complete 12B)					
C. Empty 12 mos. or more (complete 12B)					
D. Sump (contains products no more than 48 hours)					
E. Emergency back-up generator tank					
F. Abandoned in place					
G. Removed	X	X	X	X	X
H. Other (Please specify)					
12. Closure Information - Tank ID No.	TANK NO. E1	TANK NO. E2	TANK NO. E4	TANK NO. E5	TANK NO. E6
	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year
A. Date abandoned in place					
B. Date taken out of service					
C. Date removed	09 10 1998	09 10 1998	09 09 1998	09 08 1998	09 08 1998
D. Date of sale or transfer					
E. Closure # (if applicable)					
F. ISRA # (if applicable)					
13. Is the tank within wellhead protection area as defined on pg. 4 (Mark one X for each tank)					
A. Yes					
B. No					

SECTION C - FINANCIAL RESPONSIBILITY

Does this facility have a Financial Responsibility Assurance Mechanism as required in 40 CFR 280? ☐ YES ☐ NO
Please list the appropriate financial information below:

Type _____ Carrier/Issuing Agency _____

Effective Date ____/____/____ Expiration Date ____/____/____ Policy Number _____ $ Amount _____

SECTION D - MONITORING SYSTEMS

Does this facility have a release detection monitoring system which is in compliance with N.J.A.C. 7:14B-6? ☐ YES ☐ NO
If "No", please be aware that the facility must meet the appropriate deadline. (See "Dates to Know" on Page 4)

SECTION E - RECORD KEEPING / COMPLIANCE

Please answer all the questions in this section on a facility basis. Any one tank not in compliance requires a "NO" answer for the entire facility.

1. Does this facility have cathodic protection systems for all steel tanks and piping? ☐ YES ☐ NO
   If "Yes", are the systems properly operated and maintained pursuant to N.J.A.C. 7:14B-5.2? ☐ YES ☐ NO
2. Are the performance claims and documentation of monitoring systems maintained by the owner or operator pursuant to N.J.A.C. 7:14B-6.7? ☐ YES ☐ NO
3. Are the proper monitoring, testing, sampling, repair and inventory records kept on-site pursuant to N.J.A.C. 7:14B-5 and 6? ☐ YES ☐ NO
4. Is the proper Release Response Plan kept on-site pursuant to N.J.A.C. 7:14B-5.5? ☐ YES ☐ NO
5. Does the facility have spill and overfill protection systems pursuant to N.J.A.C. 7:14B-4? ☐ YES ☐ NO
6. Have all Fill Ports been permanently marked per API #1637 pursuant to N.J.A.C. 7:14B-5.8? ☐ YES ☐ NO

IMPORTANT INFORMATION

FEE: Please make checks payable to: "Treasurer, State of New Jersey". Use of the enclosed return envelope will expedite processing. Registration and Billing Schedule can be found in N.J.A.C. 7:14B-3. All Initial Registration fees are $100 per facility. (See N.J.A.C. 7:14B-3.1 and 3.2(c).

PENALTY: Failure by owner or operator of a regulated underground storage tank to comply with any requirement of the State UST Act or regulations may result in the penalties set forth in N.J.S.A. 58:10A-12.

EMERGENCY: If a discharge or spill occurs, the NJDEP Hotline at (609) 292-7172 must be called **IMMEDIATELY** - 24 hours a day.

EXEMPTION: Residential heating oil underground storage tanks are exempt from all underground storage tank requirements.

DATES TO KNOW (critical deadlines)

December 22, 1988 - All new federally regulated tank systems must have corrosion protection and spill/overfill protection.
September 4, 1990 - All new state-only regulated tank systems must have corrosion protection and spill/overfill protection.
February 19, 1993 - All federally regulated tank systems must maintain financial responsibility assurance.
December 22, 1993 - All federally regulated tank systems must have begun leak detection.
December 22, 1998 - All regulated tanks shall have corrosion protection and spill/overfill protection.
December 22, 1998 - All state regulated tanks need leak detection.

CERTIFICATION

Must be signed as follows:

- For a corporation, by a person authorized by resolution of the Board of Directors to sign the document.
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively.
- For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.
- For persons other than indicated above, by the person with legal responsibility for the site.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information. I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Thomas J. Byrne III	Thomas J. Byrne III
(Typed / Printed Name)	*(Signature)*
Mayor	12/1/98
(Title)	*(Date)*

DEFINITIONS

Section B8 J. "Safe" Suction Piping - Suction Piping which has enough slope so that the product in the pipe can drain back into the tank when the suction is released, and which has only one check valve, located directly beneath the pump in the dispensing unit.

Section B8 K. In-Line Electronic Pressure Monitor - (Used with pressurized piping only) A monitor which checks for loss of pressure in piping when no product is dispensed. This method may be used once every 30 days or every time the dispenser turns off.

Section B8 L. Automatic Line Leak Detectors - (Required with pressurized piping - Must be able to detect a 3 gph leak within 1 hour of its occurence)

1. Flow restrictors and flow shut offs which monitor pressure within piping and when a suspected leak is detected, either restricts the flow of product through the piping well below the 3 gph leak rate it detects, or completely cuts off product flow and shuts down the pump.
2. Continuous alarm systems constantly monitor piping conditions and trigger an audible or visual alarm if a leak is suspected.

Section B13 Wellhead Protection Area -

1. The area within a 2,000 ft. radius surrounding a public community or public non-community water system well when there is an underground storage tank containing gasoline or non-petroleum hazardous substances located within that area.

2. The area within a 750 ft. radius surrounding a public community or public non-community water system well when there is an underground storage tank containing petroleum products other than gasoline located within that area.

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Water Resources
CN-029
Trenton, New Jersey 08625

0097365
PUBLIC WORKS WATER TREATMEN

X

RECEIVED
MAY 8 1986
Division of Environmental Protection
Division of Water Resources
Bureau of Ground Water Discharge Permits

SP. ROUTE	☐
SITE PLN.	☑
SIGN.	☑
COMCODE	13417

UNDERGROUND STORAGE TANK REGISTRATION QUESTIONNAIRE

Bureau of Ground Water Quality Management
Underground Storage Tank Section
(609)984-9736

COMPLIANCE WITH THIS REGISTRATION WILL MEET ALL REGISTRATION REQUIREMENTS OF THE FEDERAL LAW, P.L. 93-616, THE HAZARDOUS AND SOLID WASTE AMENDMENTS OF 1984, SUBTITLE 1, SECTIONS 9001-9010.

General Facility Information

1. Facility name: PUBLIC WORKS WATER TREATMENT PLA

2. Facility location: FIFTH & ATLANTIC AVES
NUMBER AND STREET
SPRING LAKE
CITY OR MUNICIPALITY
MONMOUTH | NJ | 07762
COUNTY | STATE | ZIP CODE

3. Owner's mailing address: FIFTH & WARREN AVES
NUMBER AND STREET
SPRING LAKE
CITY OR MUNICIPALITY
MONMOUTH | NJ | 07762
COUNTY | STATE | ZIP CODE

4. Owner's name: BOROUGH OF SPRING LAKE

5. Contact person (Facility Operator) ROBERT PAZIENZA P.E. M. Supt
PERSON OR TITLE

6. Contact telephone number: 201 | 449 | 0600
AREA CODE | EXCHANGE | NUMBER

7. Total number of facility underground storage tanks: 0006 (Complete Questions 12 thru 33 for each tank)

8. Total facility underground storage tank capacity (gallons): 00008500

9. Type and status of owner (mark all that apply).

A. ☒ CURRENT B. ☐ FORMER C. ☒ STATE OR LOCAL GOVERNMENT D. ☐ PRIVATE OR CORPORATE E. ☐ OWNERSHIP UNCERTAIN F. ☐ FEDERAL GOVT (GSA FACILITY I.D. NUMBER)

10. Two copies of a site plan are submitted with this registration. A. ☒ YES B. ☐ NO

Submit two (2) copies of SITE PLAN showing facility or property boundary, buildings and the location of ALL underground storage tanks. EITHER, an existing engineering site plan, if available, OR a neat and legible hand-drawn sketch of the site may be submitted. In either case the site plan or sketch MUST show the location and distances that tanks, buildings, and dispensers are from the facility's property boundary. Include all tanks that are operating or existing, (E); abandoned, (A); or closed, (C). Each underground tank on the site plan or sketch shall be numbered in accordance with the instructions for question 12. The number assigned to a tank on the site plan or sketch MUST match and be identical to the tank identification number assigned to that tank on this form.

INCLUDE FACILITY NAME, OWNER'S NAME, FACILITY ADDRESS AND TELEPHONE NUMBER ON ALL SITE PLANS.

11. All underground tanks used after January 1, 1974 including those taken out of operation, **(UNLESS THE TANK WAS REMOVED FROM THE GROUND)** must be included in this registration. All in-ground tanks shall be reported as underground tanks on this questionnaire regardless of their current status; Existing, E; Abandoned, A; or Closed C.

SPECIFIC TANK INFORMATION

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
12. Tank Identification Number	E1	E2	E3	E4	E5
13. CASRN Number (Hazardous Substances Only)					
14. Tank Age (Years)	17	15	13	17	13
15. Tank Size (gallons)	001000	001000	002000	002000	001000
16. Tank Contents (MARK ONE X)					
A. Leaded gasoline	☐	☐	☐	☐	☒
B. Unleaded gasoline	☐	☒	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☒	☐	☐	☒	☐
F. Waste oil	☐	☐	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☒	☐	☐
J. Heating oil (No. 4)	☐	☐	☐	☐	☐
K. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
L. Aviation fuel	☐	☐	☐	☐	☐
M. Hazardous substances (per Fact Sheet)	☐	☐	☐	☐	☐
N. Other; Please Specify					
17. Tank and Piping Construction (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Bare steel	☐ / ☒	☐ / ☒	☐ / ☒	☐ / ☒	☐ / ☒
B. Carbon steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Stainless steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
D. Aluminum	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
E. Polyvinyl chloride	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
F. Concrete	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
G. Bronze	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
H. Earthen walls	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
J. Fiberglass reinforced plastic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
K. Fiberglas-clad steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
L. Painted/asphalt steel	☒ / ☐	☒ / ☐	☒ / ☐	☒ / ☐	☒ / ☐
M. Vaulted	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
N. Composite	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
P. Iron (cast or ductile)	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
R. Non-metallic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
S. Other; Please Specify					
18. Tank and Piping Structure (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Single wall	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒
B. Double wall	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Manway in tank	☐	☐	☐	☐	☐
19. Internal Tank and Piping Lining (MARK ONE X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Rubber	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
B. Epoxy	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Alkyd	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
D. Phenolic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
E. Glass	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
F. Clay	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
G. None	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒
H. Other, Please Specify					

Tank I.D. No.	TANK NO. 1		TANK NO. 2		TANK NO. 3		TANK NO. 4		TANK NO. 5	
20. Tank and Piping Lining installed (MARK ONE X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. At purchase of tank	X	X	X	☐	X	X	X	X	X	X
B. Retrofitted	☐	☐	☐	X	☐	☐	☐	☐	☐	☐
21. Secondary containment (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Liner	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Vault	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Double wall	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. None	X	X	X	X	X	X	X	X	X	X
E. Other, Please Specify										
22. External Type/Application of Cathodic Protection (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Wrapped	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Sprayed	X	☐	X	☐	X	☐	X	☐	X	☐
C. Sacrificial anode	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Impressed current	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. None	☐	X	☐	X	☐	X	☐	X	☐	X
F. Other, Please Specify										
23. Monitoring/detection method (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Automatic sampling	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Manual sampling	X	☐	X	☐	X	☐	X	☐	X	☐
C. Ground water monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. System in secondary containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. System outside backfill	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. System within piping (piping leak detector)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. None	☐	X	☐	X	☐	X	☐	X	☐	X
24. Type of monitoring/detection system (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Continuous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Event activated	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Audio	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Visual	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Electric sensor	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Stock/inventory control (manual)	X	☐	X	☐	X	☐	X	☐	X	☐
G. Stock/inventory control (electronic)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Tile drain	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Vapor sniff wells	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
K. Internal inspection	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
L. Other, Please Specify										
M. None	☐	X	☐	X	☐	X	☐	X	☐	X
25. Testing history recorded (MARK ALL THAT APPLY X)										
A. Yes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. No	X	X	X	X	X	X	X	X	X	X
C. Test Result (MARK IF LEAKING NOW)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
26. Leak/spill occurrence (MARK ALL THAT APPLY X)										
A. Within the past 1 year	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Within the past 1 to 5 years	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. More than 5 years ago	X	X	X	X	X	X	X	X	X	X
D. No Records	X	X	X	X	X	X	X	X	X	X

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
Tank I.D. No.	E1	E2	E3	E4	E5
27. Tank Status (MARK ONE X) A. Active (operational)	X	X	X	X	X
B. Inactive (non-operational)	☐	☐	☐	☐	☐
C. Closed (temporarily out-of-service)	☐	☐	☐	☐	☐
D. Closed (permanently out-of-service)	☐	☐	☐	☐	☐
* SEE BELOW E. Abandoned, in place	☐	☐	☐	☐	☐
* SEE BELOW F. Abandoned, in place, filled only	☐	☐	☐	☐	☐
* SEE BELOW G. Abandoned, in place, sealed only	☐	☐	☐	☐	☐
* SEE BELOW H. Abandoned, in place, filled and sealed	☐	☐	☐	☐	☐
* SEE BELOW J. Seasonal	☐	☐	☐	☐	☐
K. Prior retrofitting work, Please Specify					
L. Other, Please Specify					
28. Spill recovery system on-site (MARK ONE X) A. Yes	X	X	X	X	X
B. No	☐	☐	☐	☐	☐
29. Overfill protection (tank only) (MARK ONE X) A. Yes	☐	☐	☐	☐	☐
B. No	X	X	X	X	X
30. Emergency shut-off mechanisms (dispensers) (MARK ONE X) A. Yes	☐	☐	☐	☐	☐
B. No	X	X	X	X	X

*** If boxes 27 E, F, G or H above have been answered - answer questions 31, 32 and 33 below.**

31. Substance last used in tank (MARK ONE X) A. Leaded gasoline	☐	☐	☐	☐	☐
B. Unleaded gasoline	☐	☐	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☐	☐	☐	☐	☐
F. Waste oil	☐	☐	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☐	☐	☐
J. Heating oil (No. 4)	☐	☐	☐	☐	☐
J. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
K. Aviation fuel	☐	☐	☐	☐	☐
L. Hazardous substances (per Fact Sheet)	☐	☐	☐	☐	☐
M. Other, Please Specify					
32. Estimated date last used (month/year)	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.
33. Estimated quantity (gallons) left in tank					

OWNER OR OWNER'S AGENT CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Robert A. Pazienza
(SIGNATURE)

ROBERT A. PAZIENZA
(PRINT OR TYPE NAME)

PUBLIC WORKS Supt.
(TITLE)

11. All underground tanks used after January 1, 1974 including those taken out of operation, **(UNLESS THE TANK WAS REMOVED FROM THE GROUND)** must be included in this registration. All in-ground tanks shall be reported as underground tanks on this questionnaire regardless of their current status; Existing, E; Abandoned, A; or Closed C.

Tank 6

SPECIFIC TANK INFORMATION

00 97365

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
12. Tank Identification Number	E				
13. CASRN Number (Hazardous Substances Only)					
14. Tank Age (Years)	15				
15. Tank Size (gallons)	00/500				
16. Tank Contents (MARK ONE X)					
A. Leaded gasoline	☐	☐	☐	☐	☐
B. Unleaded gasoline	☐	☐	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☐	☐	☐	☐	☐
F. Waste oil	☒	☐	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☐	☐	☐
J. Heating oil (No. 4)	☐	☐	☐	☐	☐
K. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
L. Aviation fuel	☐	☐	☐	☐	☐
M. Hazardous substances (per Fact Sheet)	☐	☐	☐	☐	☐
N. Other; Please Specify					
17. Tank and Piping Construction (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Bare steel	☐ / ☒	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
B. Carbon steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Stainless steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
D. Aluminum	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
E. Polyvinyl chloride	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
F. Concrete	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
G. Bronze	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
H. Earthen walls	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
J. Fiberglass reinforced plastic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
K. Fiberglas-clad steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
L. Painted/asphalt steel	☒ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
M. Vaulted	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
N. Composite	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
P. Iron (cast or ductile)	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
R. Non-metallic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
S. Other; Please Specify					
18. Tank and Piping Structure (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Single wall	☒ / ☒	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
B. Double wall	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Manway in tank	☐	☐	☐	☐	☐
19. Internal Tank and Piping Lining (MARK ONE X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Rubber	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
B. Epoxy	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Alklyd	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
D. Phenolic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
E. Glass	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
F. Clay	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
G. None	☒ / ☒	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
H. Other, Please Specify					

	Tank I.D. No.	TANK NO. 16	TANK NO.	TANK NO.	TANK NO.	TANK NO.
27. Tank Status (MARK ONE X)						
A. Active (operational)		X	☐	☐	☐	☐
B. Inactive (non-operational)		☐	☐	☐	☐	☐
C. Closed (temporarily out-of-service)		☐	☐	☐	☐	☐
D. Closed (permanently out-of-service)		☐	☐	☐	☐	☐
* SEE BELOW E. Abandoned, in place		☐	☐	☐	☐	☐
* SEE BELOW F. Abandoned, in place, filled only		☐	☐	☐	☐	☐
* SEE BELOW G. Abandoned, in place, sealed only		☐	☐	☐	☐	☐
* SEE BELOW H. Abandoned, in place, filled and sealed		☐	☐	☐	☐	☐
J. Seasonal		☐	☐	☐	☐	☐
K. Prior retrofitting work, Please Specify						
L. Other, Please Specify						
28. Spill recovery system on-site (MARK ONE X)						
A. Yes		X	☐	☐	☐	☐
B. No		☐	☐	☐	☐	☐
29. Overfill protection (tank only) (MARK ONE X)						
A. Yes		☐	☐	☐	☐	☐
B. No		X	☐	☐	☐	☐
30. Emergency shut-off mechanisms (dispensers) (MARK ONE X)						
A. Yes		☐	☐	☐	☐	☐
B. No		X	☐	☐	☐	☐

*** If boxes 27 E, F, G or H above have been answered - answer questions 31, 32 and 33 below.**

31. Substance last used in tank (MARK ONE X)					
A. Leaded gasoline	☐	☐	☐	☐	☐
B. Unleaded gasoline	☐	☐	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☐	☐	☐	☐	☐
F. Waste oil	☐	☐	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☐	☐	☐
J. Heating oil (No. 4)	☐	☐	☐	☐	☐
J. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
K. Aviation fuel	☐	☐	☐	☐	☐
L. Hazardous substances (per Fact Sheet)	☐	☐	☐	☐	☐
M. Other, Please Specify					
32. Estimated date last used (month/year)	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.
33. Estimated quantity (gallons) left in tank					

OWNER OR OWNER'S AGENT CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Robert A. Pazienza
(SIGNATURE)

ROBERT A. PAZIENZA
(PRINT OR TYPE NAME)

PUBLIC WORKS Supt.
(TITLE)

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
Tank I.D. No.	6				

	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
20. Tank and Piping Lining installed (MARK ONE X)										
A. At purchase of tank	X									
B. Retrofitted		X								
21. Secondary containment (MARK ALL THAT APPLY X)										
A. Liner										
B. Vault										
C. Double wall										
D. None	X	X								
E. Other, Please Specify										
22. External Type/Application of Cathodic Protection (MARK ALL THAT APPLY X)										
A. Wrapped										
B. Sprayed	X									
C. Sacrificial anode										
D. Impressed current										
E. None		X								
F. Other, Please Specify										
23. Monitoring/detection method (MARK ALL THAT APPLY X)										
A. Automatic sampling										
B. Manual sampling	X									
C. Ground water monitoring										
D. System in secondary containment										
E. System outside backfill										
F. System within piping (piping leak detector)										
G. None		X								
24. Type of monitoring/detection system (MARK ALL THAT APPLY X)										
A. Continuous										
B. Event activated										
C. Audio										
D. Visual										
E. Electric sensor										
F. Stock/inventory control (manual)	X									
G. Stock/inventory control (electronic)										
H. Tile drain										
J. Vapor sniff wells										
K. Internal inspection										
L. Other, Please Specify										
M. None		X								
25. Testing history recorded (MARK ALL THAT APPLY X)										
A. Yes										
B. No	X	X								
C. Test Result (MARK IF LEAKING NOW)										
26. Leak/spill occurrence (MARK ALL THAT APPLY X)										
A. Within the past 1 year										
B. Within the past 1 to 5 years										
C. More than 5 years ago	X	X								
D. No Records	X	X								

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
BUREAU OF UNDERGROUND STORAGE TANKS
Registration and Billing Section
CN-029
TRENTON, NEW JERSEY 08625
1-800-722-TANK

0071360 X

For State Use Only

	Yes	No
Ck.	✓	
A/C	✓	
Inv.		
R/F		
Sp. Hnd.		
Staff		

RECEIVED MAR 17 1988

ANNUAL CERTIFICATION
QUESTIONNAIRE

SECTION A:

Have there been any changes in this facility's registration status during the past twelve months that have not already been reported to the Bureau of Underground Storage Tanks on a Standard Reporting Form?

☒ NO ☐ YES

If NO, please complete Sections B, D, E and return this form with the top half of the billing invoice and the appropriate fee.

If YES, please check the appropriate type of change (s) below that occurred and complete the enclosed Registration Questionnaire with the NEW information ONLY and sign the questionnaire and return it along with the top half of the billing invoice, this form and the appropriate fee.

____ Company Name and Address (ownership change)

____ Facility location

____ Operator(s)

____ Contact Person(s)

____ Type of product(s) stored

____ Spills, accidents or leaks

____ Other (explain)

(OVER)

SECTION B:

Are inventory records maintained on-site?

☐ NO ☒ YES

Have any unaccountable losses been discovered at your facility?

☒ NO ☐ YES

NOTE It is required that all leaks be reported to the NJDEP within 24 hours of discovery by contacting the NJDEP Hotline telephone number (609) 292-7172.

SECTION C:

Failure by owner or operator of an underground storage tank to comply with any requirement of the State Act or this chapter may result in the penalties set forth in N.J.S.A. 58:10A-10.

SECTION D:

CERTIFICATION

*** This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility. (7:14B-2.3 (a) 1). ***

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment.

Robert A. Pazienza
(Signature)

4 March 88
(Date)

ROBERT A. PAZIENZA
(Name - print or type)

Public Works Supt.
(Title)

***UST NO. 009365
(Use the UST Number from you invoice)

SECTION E:

The Fee Schedule is printed on the reverse side of the billing invoice. Please make your payment instrument payable to: "Treasurer", State of New Jersey. Use of the enclosed return envelope will expedite the processing of your certification.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
BUREAU OF APPLICABILITY AND COMPLIANCE
Registration and Billing Unit
CN 028, Trenton, N.J. 08625-0028
1-609-984-3156

FOR STATE USE ONLY
Check In ☑ Yes ☐ No
STATUS Active ☐ Inactive ☐ COMCODE ☐☐☐☐

UNDERGROUND STORAGE TANK FACILITY QUESTIONNAIRE

FACILITY UST # 0097365

Completion of this Registration Questionnaire will satisfy the registration requirements of the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21, and the Registration and Billing Regulations N.J.A.C. 7:14B-2.

[Check appropriate box(es)]

A. ☐ Is this a registration of a proposed or newly installed underground storage tank? (This form must be filed at least 30 days prior to operation)
B. ☐ Is this a registration of an existing underground storage tank not presently registered?
C. ☐ Is this a correction or amendment to an existing facility registration? UST #_____
D. ☒ There have been no changes to the facility registration since last submittal. UST # 0097365 (Go to certification page for signatures)

If "C" is checked above, please check the appropriate type of change(s) below

☐ Facility Name and/or Address Change
☐ Owner Name and/or Address Change
☐ Facility Operator and/or Address Change
☐ Owner Contact Person Change
☐ Type of Product(s) Stored
☐ Spills, Leaks, Releases
☐ Tank(s) and/or Piping Changes
☐ Closure (Complete Question #13)
☐ Financial Responsibility Change
☐ Substantial Modification(s)
☐ Sale or Transfer (Complete Questions 4,5,6 & 13D)
☐ Other *(please specify)*

SECTION A - GENERAL FACILITY INFORMATION

1. Facility Name
2. Facility Location
   NUMBER AND STREET
   CITY OR MUNICIPALITY
   COUNTY | STATE NJ | ZIP CODE | BLOCK | LOT
3. Facility Operator
   PERSON OR TITLE
   Contact Tele. No. (Area Code) (Extension)
   Operator Address (if different than #2)
   NUMBER AND STREET
   CITY OR MUNICIPALITY
   STATE | ZIP CODE
4. Tank Owner
5. Tank Owner Address
   NUMBER AND STREET
   CITY OR MUNICIPALITY
   STATE | ZIP CODE
6. Contact Person (Tank Owner)
   Contact Tele. No. (Area Code) (Extension)
7. EPA ID # ☐☐☐☐☐☐☐☐☐☐☐☐
8. Total number of regulated underground storage tanks at facility ☐☐☐☐ *(Complete Section B for each tank)*

9. Total regulated underground storage tank capacity at facility (gallons) [ ][ ][ ][ ][ ][ ]

10. Facility Type: A ☐ State B ☐ Commercial/ Industrial C ☐ County/Municipal D ☐ Federal E ☐ Charitable / Public School F ☐ Residence G ☐ Other H ☐ Farm (as defined in N.J.S.A. 54:4-23.1 et seq.)

11. Is a copy of the facility site plan submitted with this registration pursuant to N.J.A.C.7:14B-2? ☐ YES ☐ NO

SECTION B - SPECIFIC TANK INFORMATION

ALL underground tanks, including those taken out of operation (UNLESS THE TANK WAS REMOVED FROM THE GROUND PRIOR TO 9/3/86) must be registered. Report all tank/piping status changes unless previously submitted.

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
1. Tank Identification Number	[ ][ ][ ][ ]	[ ][ ][ ][ ]	[ ][ ][ ][ ]	[ ][ ][ ][ ]	[ ][ ][ ][ ]
2. CAS Number (hazardous substances only)	[ ][ ][ ][ ][ ][ ][ ][ ][ ]	[ ][ ][ ][ ][ ][ ][ ][ ][ ]	[ ][ ][ ][ ][ ][ ][ ][ ][ ]	[ ][ ][ ][ ][ ][ ][ ][ ][ ]	[ ][ ][ ][ ][ ][ ][ ][ ][ ]
3. Date Tank Installed (Month/Day/Year)	Mo. [ ][ ] Day [ ][ ] Year [ ][ ]	Mo. [ ][ ] Day [ ][ ] Year [ ][ ]	Mo. [ ][ ] Day [ ][ ] Year [ ][ ]	Mo. [ ][ ] Day [ ][ ] Year [ ][ ]	Mo. [ ][ ] Day [ ][ ] Year [ ][ ]
4. Tank Size (gallons)	[ ][ ][ ][ ][ ][ ]	[ ][ ][ ][ ][ ][ ]	[ ][ ][ ][ ][ ][ ]	[ ][ ][ ][ ][ ][ ]	[ ][ ][ ][ ][ ][ ]
5. Tank Contents (Mark one "X" for each tank)					
A. Leaded gasoline					
B. Unleaded gasoline					
C. Alcohol endriched gasoline					
D. Light diesel fuel (No. 1-D)					
E. Medium diesel fuel (No. 2-D)					
F. Waste Oil					
G. Kerosene (No. 1)					
H. Home heating oil (No. 2)					
J. Heating oil (No. 4)					
K. Heavy heating oil (No. 6)					
L. Aviation fuel					
M. Motor oil					
N. Lubricating oil					
P. Sewage					
Q. Sewage sludge					
R. Other hazardous substances (specify)					
S. Hazardous waste (specify ID number)					
T. Mixtures (please specify)					
U. Emergency spill tank (specify substance)					
V. Other petroleum products (please specify)					
W. Other (please specify)					
6. Tank & Piping Construction (Mark one each for both tank & piping)	Tank Piping	Tank Piping	Tank Piping	Tank Piping	Tank Piping
A. Bare Steel					
B. Cathodically protected steel					
C. Fiberglass-coated steel					
D. Fiberglass-reinforced plastic					
E. Internally lined					
F. Other (please specify)					
7. Tank & Piping Structure (Mark one each for both tank & piping)	Tank Piping	Tank Piping	Tank Piping	Tank Piping	Tank Piping
A. Single wall					
B. Double wall					
C. Other (please specify)					
8. Type of Monitoring/Detection System (Mark all that apply for both tank & piping)	Tank Piping	Tank Piping	Tank Piping	Tank Piping	Tank Piping
A. Statistical Inventory Reconciliation					
B. Manual Tank Gauging					
C. Inventory Control					
D. Interstitial					
E. Precision Test					
F. Ground water observation wells					
G. Vapor observation wells					
H. In-tank (automatic) monitoring gauge					
J. Periodic Tank Test					

Tank Identification Number	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
8. Type of Monitoring/Detection System K. None	Tank ☐ Piping ☐	Tank ☐ Piping ☐	Tank ☐ Piping ☐	Tank ☐ Piping ☐	Tank ☐ Piping ☐
L. Other (please specify)					
9. Overfill Protection (tank only) (Mark one X for each tank) A. Yes	☐	☐	☐	☐	☐
B. No	☐	☐	☐	☐	☐
10. Spill Containment Around Fill Pipe (Mark one X for each tank) A. Yes	☐	☐	☐	☐	☐
B. No	☐	☐	☐	☐	☐
11. Tank Status (Mark one X for each tank) A. In-use	Tank ☐ Piping ☐	Tank ☐ Piping ☐	Tank ☐ Piping ☐	Tank ☐ Piping ☐	Tank ☐ Piping ☐
B. Empty less than 12 months	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
C. Empty 12 months or more	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
D. Emergency spill tank (sump)	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
E. Emergency backup generator tank	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
F. Abandoned in Place	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
G. Removed	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
H. Other (please specify)					
12. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year
13. Closure Information - Tank ID No.	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year
A. Date abandoned in place					
B. Date taken temporarily out of service					
C. Date removed					
D. Date of Sale or Transfer					
E. TMS # (if applicable)					
F. ISRA # (if applicable)					

SECTION C - FINANCIAL RESPONSIBILITY

Does this facility have a Financial Responsibility Assurance Mechanism as required in 40 CFR 280? ☐ YES ☐ NO
Please list the appropriate financial information below:

Type _____ Carrier / Issuing Agency _____

____/____/____ Effective Date ____/____/____ Expiration Date _____ Policy Number $_____ Amount

SECTION D - MONITORING SYSTEMS

Does this facility have a release detection monitoring system which is in compliance with N.J.A.C. 7:14B-6? ☐ YES ☐ NO
If "No", please be aware that the facility must meet the appropriate deadline. (See "Dates to Know" on Page 4)

SECTION E - RECORDKEEPING/COMPLIANCE

Please answer all the questions in this section on a facility basis. Any one tank not in compliance requires a "NO" answer for the entire facility.

1. Does this facility have cathodic protection systems for all steel tanks and piping? ☐ YES ☐ NO
   If "Yes", are the systems properly operated and maintained pursuant to N.J.A.C. 7:14B-5? ☐ YES ☐ NO
2. Are the performance claims and documentation of monitoring systems maintained by the owner or operator pursuant to N.J.A.C. 7:14B-5? ☐ YES ☐ NO
3. Are the proper monitoring, testing, sampling, repair and inventory records kept on-site pursuant to N.J.A.C. 7:14B-5 and 6? ☐ YES ☐ NO
4. Is the proper Release Response Plan kept on-site pursuant to N.J.A.C. 7:14B-5? ☐ YES ☐ NO
5. Does the facility have spill and over fill protection systems pursuant to N.J.A.C. 7:14B-4? ☐ YES ☐ NO
6. Have all Fill Ports been permanently marked as per API #1637 pursuant to N.J.A.C. 7:14B-5? ☐ YES ☐ NO

IMPORTANT INFORMATION

FEE:	Please make checks payble to: **"Treasurer, State of New Jersey"**. Use of the enclosed return envelope will expedite processing. Registration and Billing Schedule can be found in N.J.A.C. 7:14B. All Initial Registration fees are $100 per facility.
PENALTY:	Failure by owner or operator of a regulated underground storage tank to comply with any requirement of the State UST Act or regulations may result in the penalties set forth in N.J..S.A. 58:10A-10.
EMERGENCY:	If a discharge or spill occurs, the NJDEP Hotline at (609) 292-7172 must be called IMMEDIATELY - 24 hours a day.
UPGRADE EXEMPTION:	Residential heating oil underground storage tanks are exempt from all upgrade requirements.

DATES TO KNOW (critical deadlines)

December 22, 1988	—	All new federally regulated tank systems must have cathodic protection and spill/overfill protection.
September 4, 1990	—	All new State-only regulated tank systems must have cathodic protection and spill/overfill protection.
December 22, 1990	—	All federally regulated piping must have begun leak detection.
February 19, 1993	—	All federally regulated tank systems must maintain financial responsibility assurance.
December 22, 1993	—	All federally regulated tank systems must begun leak detection.
December 22, 1998	—	All regulated tanks shall install cathodic on and spill/overfill protection.

CERTIFICATIONS

NOTE: IF THE PERSON SIGNING CERTIFICATION NO. 2 IS THE SAME AS THE PERSON SIGNING CERTIFICATION NO. 1, THEN CERTIFICATION NO. 2 NEED NOT BE SIGNED. (If different persons are required to sign No. 1 and No. 2, then they must do so.)

CERTIFICATION NO. 1:

Must be signed by the highest ranking individual at the facility with overall responsibility

"I certify under penalty of law that the information provided in this document is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

(Typed / Printed Name) _____ (Signature) _____

(Title) _____ (Date) _____

CERTIFICATION NO. 2:

Must be signed as follows:
- For a corporation, by a principal executive officer of at least the level of vice president
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively
- For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official
- For persons other than indicated above, by the person with legal responsibility for the site

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Robert B. Winemiller (Typed / Printed Name) — Robert B. Winemiller (Signature)

Borough Superintendent (Title) — January 13, 1995 (Date)

CERTIFICATION NO. 3:

If applicable, must be signed by the individual who is certified to perform services.

"I certify under penalty of law that the information provided in this document is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

(Typed / Printed Name) (Title) _____ (Signature) _____ (Date) _____

(Name of Firm, if applicable) _____ (N.J. Certification Number) _____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
BUREAU OF STATE CASE MANAGEMENT
Registration and Billing Unit
CN 028, Trenton, N.J. 08625-0028
1-609-633-0719

FOR STATE USE ONLY

Check In [X] Yes [ ] No

STATUS Active [ ] Inactive [ ] COMCODE [ ][ ][ ][ ]

UNDERGROUND STORAGE TANK FACILITY QUESTIONNAIRE

FACILITY UST # 009736 5

Completion of this Registration Questionnaire will satisfy the registration requirements of the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21, and the Registration and Billing Regulations N.J.A.C. 7:14B-2.

[Check appropriate box(es)]

A. [ ] Is this a registration of a proposed or newly installed underground storage tank? (This form must be filed at least 30 days prior to operation)
B. [ ] Is this a registration of an existing underground storage tank not presently registered?
C. [ ] Is this a correction or amendment to an existing facility registration? UST #_____
D. [X] There have been no changes to the facility registration since last submittal. UST #_____ (Go to certification page for signatures)

If "C" is checked above, please check the appropriate type of change(s) below

- [ ] Facility Name and/or Address Change
- [ ] Owner Name and/or Address Change
- [ ] Facility Operator and/or Address Change
- [ ] Owner Contact Person Change
- [ ] Type of Product(s) Stored
- [ ] Spills, Leaks, Releases
- [ ] Tank(s) and/or Piping Changes
- [ ] Closure (Complete Question #13)
- [ ] Financial Responsibility Change
- [ ] Substantial Modification(s)
- [ ] Sale or Transfer (Complete Questions 4,5,6 & 13D)
- [ ] Other *(please specify)* _____

SECTION A - GENERAL FACILITY INFORMATION

1. Facility Name

2. Facility Location
NUMBER AND STREET
CITY OR MUNICIPALITY
COUNTY | STATE: NJ | ZIP CODE | BLOCK | LOT

3. Facility Operator
PERSON OR TITLE
Contact Tele. No. (Area Code) (Extension)

Operator Address (if different than #2)
NUMBER AND STREET
CITY OR MUNICIPALITY
STATE | ZIP CODE

4. Tank Owner

5. Tank Owner Address
NUMBER AND STREET
CITY OR MUNICIPALITY
STATE | ZIP CODE

6. Contact Person (Tank Owner)
Contact Tele. No. (Area Code) (Extension)

7. EPA ID # [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

8. Total number of regulated underground storage tanks at facility [ ][ ][ ][ ] *(Complete Section B for each tank)*

9. Total regulated underground storage tank capacity at facility (gallons) ☐☐☐☐☐☐☐

10. Facility Type: A ☐ State; B ☐ Commercial/ Industrial; C ☐ County/Municipal; D ☐ Federal; E ☐ Charitable / Public School; F ☐ Residence; G ☐ Other; H ☐ Farm (as defined in N.J.S.A. 54:4-23.1 et seq.)

11. Is a copy of the facility site plan submitted with this registration pursuant to N.J.A.C. 7:14B-2? ☐ YES ☐ NO

SECTION B - SPECIFIC TANK INFORMATION

ALL underground tanks, including those taken out of operation (UNLESS THE TANK WAS REMOVED FROM THE GROUND PRIOR TO 9/3/86) must be registered. Report all tank/piping status changes unless previously submitted.

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
1. Tank Identification Number					
2. CAS Number (hazardous substances only)					
3. Date Tank Installed (Month/Day/Year)	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year
4. Tank Size (gallons)					
5. Tank Contents (Mark one "X" for each tank)					
A. Leaded gasoline					
B. Unleaded gasoline					
C. Alcohol enriched gasoline					
D. Light diesel fuel (No. 1-D)					
E. Medium diesel fuel (No. 2-D)					
F. Waste Oil					
G. Kerosene (No. 1)					
H. Home heating oil (No. 2)					
J. Heating oil (No. 4)					
K. Heavy heating oil (No. 6)					
L. Aviation fuel					
M. Motor oil					
N. Lubricating oil					
P. Sewage					
Q. Sewage sludge					
R. Other hazardous substances (specify)					
S. Hazardous waste (specify ID number)					
T. Mixtures (please specify)					
U. Emergency spill tank (specify substance)					
V. Other petroleum products (please specify)					
W. Other (please specify)					
6. Tank & Piping Construction (Mark one each for both tank & piping)	Tank Piping	Tank Piping	Tank Piping	Tank Piping	Tank Piping
A. Bare Steel					
B. Cathodically protected steel					
C. Fiberglass-coated steel					
D. Fiberglass-reinforced plastic					
E. Internally lined					
F. Other (please specify)					
7. Tank & Piping Structure (Mark one each for both tank & piping)	Tank Piping	Tank Piping	Tank Piping	Tank Piping	Tank Piping
A. Single wall					
B. Double wall					
C. Other (please specify)					
8. Type of Monitoring/Detection System (Mark all that apply for both tank & piping)	Tank Piping	Tank Piping	Tank Piping	Tank Piping	Tank Piping
A. Statistical Inventory Reconciliation					
B. Manual Tank Gauging					
C. Inventory Control					
D. Interstitial					
E. Precision Test					
F. Ground water observation wells					
G. Vapor observation wells					
H. In-tank (automatic) monitoring gauge					
J. Periodic Tank Test					

Tank Identification Number	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
8. Type of Monitoring/Detection System	Tank Piping	Tank Piping	Tank Piping	Tank Piping	Tank Piping
K. None					
L. Other (please specify)					
9. Overfill Protection (tank only) (Mark one X for each tank)					
A. Yes					
B. No					
10. Spill Containment Around Fill Pipe (Mark one X for each tank)					
A. Yes					
B. No					
11. Tank Status (Mark one X for each tank)	Tank Piping	Tank Piping	Tank Piping	Tank Piping	Tank Piping
A. In-use					
B. Empty less than 12 months					
C. Empty 12 months or more					
D. Emergency spill tank (sump)					
E. Emergency backup generator tank					
F. Abandoned in Place					
G. Removed					
H. Other (please specify)					
12. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year
13. Closure Information - Tank ID No.	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year	Mo. Day Year
A. Date abandoned in place					
B. Date taken temporarily out of service					
C. Date removed					
D. Date of Sale or Transfer					
E. TMS # (if applicable)					
F. ISRA # (if applicable)					

SECTION C - FINANCIAL RESPONSIBILITY

Does this facility have a Financial Responsibility Assurance Mechanism as required in 40 CFR 280? ☐ YES ☐ NO
Please list the appropriate financial information below:

_____ Type

_____ Carrier / Issuing Agency

____ / ____ / ____ Effective Date

____ / ____ / ____ Expiration Date

_____ Policy Number

$_____ Amount

SECTION D - MONITORING SYSTEMS

Does this facility have a release detection monitoring system which is in compliance with N.J.A.C. 7:14B-6? ☐ YES ☐ NO
If "No", please be aware that the facility must meet the appropriate deadline. (See "Dates to Know" on Page 4)

SECTION E - RECORDKEEPING/COMPLIANCE

Please answer all the questions in this section on a facility basis. Any one tank not in compliance requires a "NO" answer for the entire facility.

1. Does this facility have cathodic protection systems for all steel tanks and piping? ☐ YES ☐ NO
   If "Yes", are the systems properly operated and maintained pursuant to N.J.A.C. 7:14B-5? ☐ YES ☐ NO
2. Are the performance claims and documentation of monitoring systems maintained by the owner or operator pursuant to N.J.A.C. 7:14B-5? ☐ YES ☐ NO
3. Are the proper monitoring, testing, sampling, repair and inventory records kept on-site pursuant to N.J.A.C. 7:14B-5 and 6? ☐ YES ☐ NO
4. Is the proper Release Response Plan kept on-site pursuant to N.J.A.C. 7:14B-5? ☐ YES ☐ NO
5. Does the facility have spill and over fill protection systems pursuant to N.J.A.C. 7:14B-4? ☐ YES ☐ NO
6. Have all Fill Ports been permanently marked as per API #1637 pursuant to N.J.A.C. 7:14B-5? ☐ YES ☐ NO

IMPORTANT INFORMATION

FEE:	Please make checks payble to: **"Treasurer, State of New Jersey"**. Use of the enclosed return envelope will expedite processing. Registration and Billing Schedule can be found in N.J.A.C. 7:14B. All Initial Registration fees are $100 per facility.
PENALTY:	Failure by owner or operator of a regulated underground storage tank to comply with any requirement of the State UST Act or regulations may result in the penalties set forth in NJ..S.A. 58:10A-10.
EMERGENCY:	If a discharge or spill occurs, the NJDEP Hotline at (609) 292-7172 must be called IMMEDIATELY - 24 hours a day.
UPGRADE EXEMPTION:	Residential heating oil underground storage tanks are exempt from all upgrade requirements.

DATES TO KNOW (critical deadlines)

December 22, 1988 —	All new federally regulated tank systems must have cathodic protection and spill/overfill protection.
September 4, 1990 —	All new State-only regulated tank systems must have cathodic protection and spill/overfill protection.
December 22, 1990 —	All federally regulated piping must have begun leak detection.
February 19, 1993 —	All federally regulated tank systems must maintain financial responsibility assurance.
December 22, 1993 —	All federally regulated tank systems must have begun leak detection.
December 22, 1998 —	All regulated tanks shall install cathodic protection and spill/overfill protection.

CERTIFICATIONS

NOTE: IF THE PERSON SIGNING CERTIFICATION NO. 2 IS THE SAME AS THE PERSON SIGNING CERTIFICATION NO. 1, THEN CERTIFICATION NO. 2 NEED NOT BE SIGNED. (If different persons are required to sign No. 1 and No. 2, then they must do so.)

CERTIFICATION NO. 1:

Must be signed by the highest ranking individual at the facility with overall responsibility

"I certify under penalty of law that the information provided in this document is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

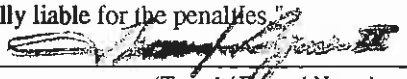
(Typed / Printed Name) _____ (Signature) _____

(Title) _____ (Date) _____

CERTIFICATION NO. 2:

Must be signed as follows:
- For a corporation, by a principal executive officer of at least the level of vice president
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively
- For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official
- For persons other than indicated above, by the person with legal responsibility for the site

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."



(Typed / Printed Name) Thomas J Byrne III (Signature)

Mayor 10/17/97

(Title) (Date)

CERTIFICATION NO. 3:

If applicable, must be signed by the individual who is certified to perform services.

"I certify under penalty of law that the information provided in this document is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

(Typed / Printed Name) (Title) (Signature) (Date)

(Name of Firm, if applicable) (N.J. Certification Number)

Borough of Spring Lake

0097365

Chartered March 8, 1892

"Ocean, Wood and Lake"

March 28, 1989

Dept. of Environmental Protection
Division of Water Resources
CN 029
Trenton, N.J.

Gentlemen:

I am returning herewith "Underground Storage Tank Registration Questionnaire" and "N.J. Underground Storage Tank Program Registration Invoice". As per the attached copy of a previous registration questionnaire, your new form is in error as to the number of tanks indicated.

As you can see, we have previously recorded there are six (6) underground storage tanks not five as indicated on the new registration form.

Please acknowledge this correction and forward an amended invoice and application form to the undersigned so that we may process same.

Very truly yours,

Robert A Pazienza

Robert A. Pazienza
Public Works Superintendent

/asp

encs.

- for 7,000 heating
except - SO 5
tanks at present.

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Water Resources
CN-029
Trenton, New Jersey 08625

UST #-	YES
CK. IN.	☐
AMT.	☐
AUTH.	☐
SP. ROUTE	☐
SITE PLN.	☐
SIGN.	☐
COMCODE	

FILE

UNDERGROUND STORAGE TANK REGISTRATION QUESTIONNAIRE

Bureau of Ground Water Quality Management
Underground Storage Tank Section
(609)984-9736

COMPLIANCE WITH THIS REGISTRATION WILL MEET ALL REGISTRATION REQUIREMENTS OF THE FEDERAL LAW, P.L. 98-616, THE HAZARDOUS AND SOLID WASTE AMENDMENTS OF 1984, SUBTITLE I, SECTIONS 9001-9010.

General Facility Information

1. Facility name: PUBLIC WORKS WATER TREATMENT PLT
2. Facility location: FIFTH & ATLANTIC AVES
   NUMBER AND STREET
   SPRING LAKE
   CITY OR MUNICIPALITY
   MONMOUTH | NJ | 07762
   COUNTY | STATE | ZIP CODE
3. Owner's mailing address: FIFTH & WARREN AVES
   NUMBER AND STREET
   SPRING LAKE
   CITY OR MUNICIPALITY
   MONMOUTH | NJ | 07762
   COUNTY | STATE | ZIP CODE
4. Owner's name: BOROUGH OF SPRING LAKE
5. Contact person (Facility Operator) ROBERT PAZIENZA P.W. SUPT
   PERSON OR TITLE
6. Contact telephone number: 201 | 449 | 0600
   AREA CODE | EXCHANGE | NUMBER
7. Total number of facility underground storage tanks: 0006 (Complete Questions 12 thru 33 for each tank)
8. Total facility underground storage tank capacity (gallons): 00008500
9. Type and status of owner (mark all that apply).
   A. ☒ CURRENT B. ☐ FORMER C. ☒ STATE OR LOCAL GOVERNMENT D. ☐ PRIVATE OR CORPORATE E. ☐ OWNERSHIP UNCERTAIN F. ☐ FEDERAL GOV (GSA FACILITY I.D. NUMBER)
10. Two copies of a site plan are submitted with this registration. A. ☒ YES B. ☐ NO

Submit two (2) copies of SITE PLAN showing facility or property boundary, buildings and the location of ALL underground storage tanks. EITHER, an existing engineering site plan, if available, OR a neat and legible hand-drawn sketch of the site may be submitted. In either case the site plan or sketch MUST show the location and distances that tanks, buildings, and dispensers are from the facility's property boundary. Include all tanks that are operating or existing, (E); abandoned, (A); or closed, (C). Each underground tank on the site plan or sketch shall be numbered in accordance with the instructions for question 12. The number assigned to a tank on the site plan or sketch MUST match and be identical to the tank identification number assigned to that tank on this form.

INCLUDE FACILITY NAME, OWNER'S NAME, FACILITY ADDRESS AND TELEPHONE NUMBER ON ALL SITE PLANS.

11. All underground tanks used after January 1, 1974 including those taken out of operation, **(UNLESS THE TANK WAS REMOVED FROM THE GROUND)** must be included in this registration. All in-ground tanks shall be reported as underground tanks on this questionnaire regardless of their current status; Existing, E; Abandoned, A; or Closed C.

SPECIFIC TANK INFORMATION

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
12. Tank Identification Number	1	2	3	4	5
13. CASRN Number (Hazardous Substances Only)					
14. Tank Age (Years)	17	35	43	14	13
15. Tank Size (gallons)	001000	001000	002000	002000	001000
16. Tank Contents (MARK ONE X)					
A. Leaded gasoline	☐	☐	☐	☐	☒
B. Unleaded gasoline	☐	☒	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☒	☐	☐	☒	☐
F. Waste oil	☐	☐	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☒	☐	☐
J. Heating oil (No. 4)	☐	☐	☐	☐	☐
K. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
L. Aviation fuel	☐	☐	☐	☐	☐
M. Hazardous substances (per Fact Sheet)	☐	☐	☐	☐	☐
N. Other; Please Specify					
17. Tank and Piping Construction (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Bare steel	☐ / ☒	☐ / ☒	☐ / ☒	☐ / ☒	☐ / ☒
B. Carbon steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Stainless steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
D. Aluminum	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
E. Polyvinyl chloride	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
F. Concrete	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
G. Bronze	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
H. Earthen walls	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
J. Fiberglass reinforced plastic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
K. Fiberglas-clad steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
L. Painted/asphalt steel	☒ / ☐	☒ / ☐	☒ / ☐	☒ / ☐	☒ / ☐
M. Vaulted	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
N. Composite	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
P. Iron (cast or ductile)	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
R. Non-metallic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
S. Other; Please Specify					
18. Tank and Piping Structure (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Single wall	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒
B. Double wall	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Manway in tank	☐	☐	☐	☐	☐
19. Internal Tank and Piping Lining (MARK ONE X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Rubber	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
B. Epoxy	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Alkyd	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
D. Phenolic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
E. Glass	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
F. Clay	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
G. None	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒
H. Other, Please Specify					

Tank I.D. No.										
20. Tank and Piping Lining installed (MARK ONE X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. At purchase of tank	X	X	X	☐	X	X	X	X	X	X
B. Retrofitted	☐	☐	☐	X	☐	☐	☐	☐	☐	☐
21. Secondary containment (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Liner	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Vault	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Double wall	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. None	X	X	X	X	X	X	X	X	X	X
E. Other, Please Specify										
22. External Type/Application of Cathodic Protection (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Wrapped	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Sprayed	X	☐	X	☐	X	☐	X	☐	X	☐
C. Sacrificial anode	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Impressed current	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. None	☐	X	☐	X	☐	X	☐	X	☐	X
F. Other, Please Specify										
23. Monitoring/detection method (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Automatic sampling	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Manual sampling	X	☐	X	☐	X	☐	X	☐	X	☐
C. Ground water monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. System in secondary containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. System outside backfill	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. System within piping (piping leak detector)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. None	☐	X	☐	X	☐	X	☐	X	☐	X
24. Type of monitoring/detection system (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Continuous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Event activated	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Audio	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Visual	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Electric sensor	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Stock/inventory control (manual)	X	☐	X	☐	X	☐	X	☐	X	☐
G. Stock/inventory control (electronic)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Tile drain	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Vapor sniff wells	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
K. Internal inspection	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
L. Other, Please Specify										
M. None	☐	X	☐	X	☐	X	☐	X	☐	X
25. Testing history recorded (MARK ALL THAT APPLY X)										
A. Yes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. No	X	X	X	X	X	X	X	X	X	X
C. Test Result (MARK IF LEAKING NOW)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
26. Leak/spill occurrence (MARK ALL THAT APPLY X)										
A. Within the past 1 year	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Within the past 1 to 5 years	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. More than 5 years ago	X	X	X	X	X	X	X	X	X	X
D. No Records	X	X	X	X	X	X	X	X	X	X

	Tank I.D. No.	TANK NO. E1	TANK NO. E2	TANK NO. E3	TANK NO. E4	TANK NO. E5
27. Tank Status (MARK ONE X) A. Active (operational)		X	X	X	X	X
B. Inactive (non-operational)		☐	☐	☐	☐	☐
C. Closed (temporarily out-of-service)		☐	☐	☐	☐	☐
D. Closed (permanently out-of-service)		☐	☐	☐	☐	☐
* SEE BELOW E. Abandoned, in place		☐	☐	☐	☐	☐
* SEE BELOW F. Abandoned, in place, filled only		☐	☐	☐	☐	☐
* SEE BELOW G. Abandoned, in place, sealed only		☐	☐	☐	☐	☐
* SEE BELOW H. Abandoned, in place, filled and sealed		☐	☐	☐	☐	☐
J. Seasonal		☐	☐	☐	☐	☐
K. Prior retrofitting work, Please Specify						
L. Other, Please Specify						
28. Spill recovery system on-site (MARK ONE X) A. Yes		X	X	X	X	X
B. No		☐	☐	☐	☐	☐
29. Overfill protection (tank only) (MARK ONE X) A. Yes		☐	☐	☐	☐	☐
B. No		X	X	X	X	X
30. Emergency shut-off mechanisms (dispensers) (MARK ONE X) A. Yes		☐	☐	☐	☐	☐
B. No		X	X	X	X	X

* If boxes 27 E, F, G or H above have been answered - answer questions 31, 32 and 33 below.

31. Substance last used in tank (MARK ONE X) A. Leaded gasoline	☐	☐	☐	☐	☐
B. Unleaded gasoline	☐	☐	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☐	☐	☐	☐	☐
F. Waste oil	☐	☐	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☐	☐	☐
J. Heating oil (No. 4)	☐	☐	☐	☐	☐
J. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
K. Aviation fuel	☐	☐	☐	☐	☐
L. Hazardous substances (per Fact Sheet)	☐	☐	☐	☐	☐
M. Other, Please Specify					
32. Estimated date last used (month/year)	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.
33. Estimated quantity (gallons) left in tank					

OWNER OR OWNER'S AGENT CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Robert A. Pazienza
(SIGNATURE)

ROBERT A. PAZIENZA
(PRINT OR TYPE NAME)

PUBLIC WORKS Supt.
(TITLE)

REMOVED FROM THE GROUND) must be included in this registration. All in-ground tanks shall be reported as underground tanks on this questionnaire regardless of their current status; Existing, E; Abandoned, A; or Closed C.

SPECIFIC TANK INFORMATION

	TANK NO.		TANK NO.		TANK NO.		TANK NO.		TANK NO.	
12. Tank Identification Number	04									
13. CASRN Number (Hazardous Substances Only)										
14. Tank Age (Years)	45									
15. Tank Size (gallons)	001500									
16. Tank Contents (MARK ONE X)										
A. Leaded gasoline	☐		☐		☐		☐		☐	
B. Unleaded gasoline	☐		☐		☐		☐		☐	
C. Alcohol enriched gasoline	☐		☐		☐		☐		☐	
D. Light diesel fuel (No. 1-D)	☐		☐		☐		☐		☐	
E. Medium diesel fuel (No. 2-D)	☐		☐		☐		☐		☐	
F. Waste oil	☒		☐		☐		☐		☐	
G. Kerosene (No. 1)	☐		☐		☐		☐		☐	
H. Home heating oil (No. 2)	☐		☐		☐		☐		☐	
J. Heating oil (No. 4)	☐		☐		☐		☐		☐	
K. Heavy heating oil (No. 6)	☐		☐		☐		☐		☐	
L. Aviation fuel	☐		☐		☐		☐		☐	
M. Hazardous substances (per Fact Sheet)	☐		☐		☐		☐		☐	
N. Other; Please Specify										
17. Tank and Piping Construction (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Bare steel	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐
B. Carbon steel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Stainless steel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Aluminum	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Polyvinyl chloride	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Concrete	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. Bronze	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Earthen walls	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Fiberglass reinforced plastic	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
K. Fiberglas-clad steel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
L. Painted/asphalt steel	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
M. Vaulted	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
N. Composite	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
P. Iron (cast or ductile)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
R. Non-metallic	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
S. Other; Please Specify										
18. Tank and Piping Structure (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Single wall	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐
B. Double wall	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Manway in tank	☐		☐		☐		☐		☐	
19. Internal Tank and Piping Lining (MARK ONE X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Rubber	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Epoxy	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Alklyd	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Phenolic	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Glass	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Clay	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. None	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐
H. Other. Please Specify										

Tank I.D. No.	TANK NO. 6		TANK NO.		TANK NO.		TANK NO.		TANK NO.	
20. Tank and Piping Lining installed (MARK ONE X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. At purchase of tank	X									
B. Retrofitted		X								
21. Secondary containment (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Liner										
B. Vault										
C. Double wall										
D. None	X	X								
E. Other, Please Specify										
22. External Type/Application of Cathodic Protection (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Wrapped										
B. Sprayed	X									
C. Sacrificial anode										
D. Impressed current										
E. None		X								
F. Other, Please Specify										
23. Monitoring/detection method (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Automatic sampling										
B. Manual sampling	X									
C. Ground water monitoring										
D. System in secondary containment										
E. System outside backfill										
F. System within piping (piping leak detector)										
G. None		X								
24. Type of monitoring/detection system (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Continuous										
B. Event activated										
C. Audio										
D. Visual										
E. Electric sensor										
F. Stock/inventory control (manual)	X									
G. Stock/inventory control (electronic)										
H. Tile drain										
J. Vapor sniff wells										
K. Internal inspection										
L. Other, Please Specify										
M. None		X								
25. Testing history recorded (MARK ALL THAT APPLY X)										
A. Yes										
B. No	X	X								
C. Test Result (MARK IF LEAKING NOW)										
26. Leak/spill occurrence (MARK ALL THAT APPLY X)										
A. Within the past 1 year										
B. Within the past 1 to 5 years										
C. More than 5 years ago	X	X								
D. No Records	X	X								

Tank I.D. No.	TANK NO. 6	TANK NO.	TANK NO.	TANK NO.	TANK NO.
27. Tank Status (MARK ONE X) A. Active (operational)	X	☐	☐	☐	☐
B. Inactive (non-operational)	☐	☐	☐	☐	☐
C. Closed (temporarily out-of-service)	☐	☐	☐	☐	☐
D. Closed (permanently out-of-service)	☐	☐	☐	☐	☐
* SEE BELOW E. Abandoned, in place	☐	☐	☐	☐	☐
* SEE BELOW F. Abandoned, in place, filled only	☐	☐	☐	☐	☐
* SEE BELOW G. Abandoned, in place, sealed only	☐	☐	☐	☐	☐
* SEE BELOW H. Abandoned, in place, filled and sealed	☐	☐	☐	☐	☐
J. Seasonal	☐	☐	☐	☐	☐
K. Prior retrofitting work, Please Specify					
L. Other, Please Specify					
28. Spill recovery system on-site (MARK ONE X) A. Yes	X	☐	☐	☐	☐
B. No	☐	☐	☐	☐	☐
29. Overfill protection (tank only) (MARK ONE X) A. Yes	☐	☐	☐	☐	☐
B. No	X	☐	☐	☐	☐
30. Emergency shut-off mechanisms (dispensers) (MARK ONE X) A. Yes	☐	☐	☐	☐	☐
B. No	X	☐	☐	☐	☐

* If boxes 27 E, F, G or H above have been answered - answer questions 31, 32 and 33 below.

31. Substance last used in tank (MARK ONE X) A. Leaded gasoline	☐	☐	☐	☐	☐
B. Unleaded gasoline	☐	☐	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☐	☐	☐	☐	☐
F. Waste oil	☐	☐	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☐	☐	☐
J. Heating oil (No. 4)	☐	☐	☐	☐	☐
J. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
K. Aviation fuel	☐	☐	☐	☐	☐
L. Hazardous substances (per Fact Sheet)	☐	☐	☐	☐	☐
M. Other, Please Specify					
32. Estimated date last used (month/year)	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.
33. Estimated quantity (gallons) left in tank					

OWNER OR OWNER'S AGENT CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Robert A. Pazienza
(SIGNATURE)

ROBERT A. PAZIENZA
(PRINT OR TYPE NAME)

PUBLIC WORKS Supt.
(TITLE)

BOROUGH OF SEA GIRT

MONMOUTH COUNTY

TAX MAP

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
BUREAU OF UNDERGROUND STORAGE TANKS
Registration and Billing Section
CN-028
TRENTON, NEW JERSEY 08625
1-800-722-TANK

For State Use Only	Yes	No
Ck.	✓	
A/C	✓	
Inv.	✓	
R/F		
Sp. Hnd.		
Staff	KZ	

UST No. 0049736 5

MAY 12 1989

ANNUAL CERTIFICATION
QUESTIONNAIRE

SECTION A:

Have there been any changes in this facility's registration status during the past twelve months that have not already been reported to the Bureau of Underground Storage Tanks on a Standard Reporting Form?

☒ NO ☐ YES

If NO, please complete Sections B, D, E and return this form with the top half of the billing invoice and the appropriate fee.

If YES, please check the appropriate type of change (s) below that occurred and complete the enclosed Registration Questionnaire with the NEW information ONLY. Also, please complete Sections B,D, and E on the reverse side and sign where indicated. Return this form along with the top half of the billing invoice, registration form(if appropriate) and the correct fee.

TYPES OF CHANGES:

____ Facility

____ Facility location

____ Owner's name and/or address (circle which)

____ Contact Person(s) and/or phone number (circle which)

____ Type of product(s) stored

____ Spills, accidents or leaks

____ Other (explain)

*** Use enclosed REGISTRATION FORM for changes checked above ***

(OVER)

SECTION B:

Are inventory records maintained on-site?

☐ NO ☒ YES

Have any unaccountable losses been discovered at your facility?

☒ NO ☐ YES

****NOTE**** It is required that all leaks be reported to the NJDEP within 24 hours of discovery by contacting the NJDEP Hotline telephone number (609) 292-7172.

SECTION C:

Failure by owner or operator of an underground storage tank to comply with any requirement of the State Act or this chapter may result in the penalties set forth in N.J.S.A. 58:10A-10.

SECTION D:

CERTIFICATION

*** This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility. (7:14B-2.3 (a) 1). ***

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment.

Robert A. Pazienza
(Signature)

April 24, 1989
(Date)

ROBERT A. PAZIENZA
(Name - print or type)

PUBLIC WORKS SUPERINTENDENT
(Title)

***UST NO. 0097365
(Use the UST Number from you invoice)

BOROUGH OF SPRING LAKE
(Facility Name)

FIFTH & WARREN AVENUE, SPRING LAKE
(Facility Address)

SECTION E

The Fee Schedule is printed on the reverse side of the billing invoice. Please make your payment instrument payable to: "Treasurer", State of New Jersey. Use of the enclosed return envelope will expedite the processing of your certification.

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
BUREAU OF UNDERGROUND STORAGE TANKS
Registration and Billing Section
CN-029
TRENTON, NEW JERSEY 08625
1-800-722-TANK

For State Use Only	YES	NO
P.O.		✓
Ck.		
A/C	✓	
Inv. returned	✓	
R/F P.O.		
Sp. Hnd.		
Staff		

0097365

APR 11 1990

Annual Certification Questionnaire

SECTION A:

Have there been any changes in this facility's registration status during the past twelve months that have not already been reported to the Bureau of Underground Storage Tanks on a Standard Reporting Form?

☒ NO ☐ YES

If NO, please complete Sections B, D, E, and return the form with the top half of the billing invoice and the appropriate fee.

If YES, please check below the appropriate type of change(s) that occurred and complete the enclosed Registration Questionnaire with the NEW information ONLY. Also, please complete Sections B,D, and E on the reverse side and sign where indicated. Return this form along with the top half of the billing invoice, registration form (if appropriate) and the correct fee.

TYPES OF CHANGES

____ Facility

____ Facility location

____ Owner's name and/or address (circle which)

____ Contact Person(s) and/or phone number (circle which)

____ Type of product(s) stored

____ Spills, accidents or leaks

____ Other (explain and document as needed)

*** Use enclosed REGISTRATION FORM for changes checked above ***

SECTION B:

Are inventory records maintained on-site?

☒ NO ☐ YES

Have any unaccountable losses been discovered at your facility?

☒ NO ☐ YES

NOTE It is required that all leaks be reported to the NJDEP within 24 hours of discovery by contacting the NJDEP Hotline telephone number (609) 292-7172.

SECTION C:

Failure by the owner or operator of an underground storage tank to comply with any requirement of the State Act or this chapter may result in the penalties set forth in N.J.S.A. 58:10A-10.

SECTION D:

CERTIFICATION

This Annual Certification shall be signed by the highest ranking individual at the facility with overall responsibility for that facility. (7:14B-2.3(a)1).

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment.

Robert A. Pazewa
(Signature)

04/05/90
(Date signed)

ROBERT A. PAZEWA
(Name - print or type)

Borough Superintendent
(Title)

UST NO. 0097365

Public Works & Water Treatment Plant
(Facility Name)

Fifth & Atlantic Avenue
(Facility Address)

SECTION E:

The Fee Schedule is printed on the reverse side of the billing invoice. Please make your payment instrument payable to: "Treasurer, State of New Jersey". Use of the enclosed return envelope will expedite processing of your certification.

UST N	TYPE		
0097365	ACF	5	03/01/89 - 02/28/90 .

03/10/89	04/09/89	$100.00

BOROUGH OF SPRING LAKE
FIFTH-WARREN AVES
SPRING LAKE
NJ 07762

00000000000000000000000000000000000000010000000000000973653513

TAIN THIS PORTION FOR YOUR RECORDS

NEW JERSEY UNDERGROUND STORAGE TANK PROGRAM

UST NO	CATEGORY	NO OF TANKS	REGISTRATION PERIOD	DATE	DUE DATE
0097365	ACF	5	03/01/89 - 02/28/90	03/10/89	04/09/89

AMOUNT DUE
$100.00

FACILITY BILLED:

PUBLIC WORKS WATER TREATMENT PLA
FIFTH-ATLANTIC AVES
SPRING LAKE
NJ 07762

PLEASE NOTE: Pursuant to N.J.A.C. [illegible]
Any penalty incurred will be [illegible]

FEE SCHEDULE CATEGORIES

ANNUAL CERTIFICATION FEE (ACF)

1-5 TANKS $100.00

EACH ADDITIONAL tank add $15.00 per tank to the $100.00 base fee.

Example: Eight (8) tanks would be:

1-5 tanks	$100.00
6, 7, 8 tanks	+ 45.00
Total Amount Due	$145.00

INITIAL REGISTRATION FEE (IRF)

$100.00 per facility

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
BUREAU OF APPLICABILITY AND COMPLIANCE
Registration and Billing Section
CN 028
Trenton, N.J. 08625-0028

For State Use Only	YES	NO
Ck.		
A/C		
Inv.		
R/F		
Sp. Hnd.		
Staff		

Annual Certification Questionnaire

0097365

Compliance with this Annual Certification will meet all requirements of State Law P.L. 1986, c. 102, The Underground Storage of Hazardous Substances Act (N.J.S.A. 58:10A-21) and the Underground Storage Tank Regulations (N.J.A.C. 7:14B-1 through 15).

IMPORTANT INFORMATION

FEE: The Fee Schedule is printed on the reverse side of the billing invoice. Please make your payment instrument payble to: "Treasurer", State of New Jersey. Use of the enclosed return envelope will expedite processing.

PENALTY: Failure by onwer or operator of a regulated underground storage tank to comply with any requirement of the State UST Act or regulations may result in the penalties set forth in N.J.S.A. 58:10A-10.

EMERGENCY: If a discharge or spill occurs, the NJDEPE Hotline at (609) 292-7172 must be called IMMEDIATELY - 24 hours a day.

UPGRADE EXEMPTION: Residential heating oil underground storage tanks are exempt from all upgrade requirements.

DATES TO KNOW (critical deadlines)

December 22, 1989 - All federally regulated tank systems installed before 1965 (or of unknown age) must have installed leak detection.
December 22, 1990 - All federally regulated tank systems installed between 1965-1969 must have installed leak detection.
December 22, 1991 - All federally regulated tank systems installed between 1969-1974 must have installed leak detection.
December 22, 1992 - All federallly regulated tank systems installed between 1974-1979 must have installed leak detection.
December 22, 1993 - All regulated tanks must install cathodic protection, monitoring systems and spill/overfill protection (non-residential heating oil tanks exluded).
August 6, 1994 - All non-residential heating oil tanks installed prior to August 6, 1974 must install cathodic protection, monitoring systems, and spill/overfill protection.
August 6, 1995 - All non-residential heating oil tanks installed on or after August 6, 1974 must install cathodic protection, monitoring systems, and spill/overfill protection.
December 22, 1998 - All regulated hazardous waste substance systems must have secondary containment (petroleum products and waste oil tank systems excluded).

JAN 26 1 50 PM

SECTION A — REGISTRATION & BILLING

Have there been any changes to this facility's registration status during the last twelve months that have not been reported to this office?
☐ YES ☒ NO

If YES, please check the appropriate type of change(s) below and complete the enclosed REGISTRATION QUESTIONNAIRE (black bar on face of the form) with NEW information ONLY. Then, complete the remainder of this form and submit to this office.

_____ Facility Name and Address
_____ Owner Name and Address
_____ Contact Person
_____ Type of Product(s) Stored
_____ Spills, accidents, leaks or releases
_____ Substantial Modification(s)

PLEASE USE REGISTRATION FORM WITH BLACK BAR AT THE TOP FOR REPORTING THIS INFORMATION

_____ Other (please specify)

If NO, please complete the remainder of this form and return to this office.

SECTION B — MONITORING SYSTEMS

1. Does this facility have a secondary containment system which was installed before the effective date of the UST Technical regulations?
☐ YES ☒ NO
If Yes, does the secondary containment system comply with all provisions of these regulations?
☐ YES ☐ NO

2. Does this facility have a monitoring system which is in compliance with N.J.A.C. 7:14B-4.5(e) (for systems installed prior to the effective date of these regulations) or N.J.A.C. 7:14B-6 (for systems installed after the effective date of these regulations)?
☐ YES ☒ NO
If No, please be aware that the facility must meet the appropriate deadline. (See Dates to Know at top of this page).

3. Does this facility have an UST system installed prior to 1965 or of unknown age? ☒ YES ☐ NO
If Yes, has the facility installed a leak detection system that complies with all provisions of the Federal UST Technical Regulations 40 CFR 280.40? ☐ YES ☒ NO
If No, were the closure procedures completed as required by the Federal UST Technical Regulations 40 CFR 280.71, 72? ☐ YES ☒ NO

SECTION C

RECORDKEEPING COMPLIANCE

Please answer all the questions in this Section on a facility basis. Any one tank not in compliance requires a "NO" answer for the entire facility.

1. Does this facility have cathodic protection systems? ☐ YES ☒ NO
   If Yes, are the systems properly operated and maintained as required by the UST Technical Regulations Subchapter 5.2? ☐ YES ☐ NO
2. Are the performance claims and documentation of monitoring systems maintained by the owner or operator as required by Subchapter 6.6? ☐ YES ☒ NO
3. Are the proper monitoring, testing, sampling, repair and inventory records kept on-site as required by Subchapter 6.6? ☐ YES ☒ NO
4. Is the proper Release Response Plan kept on-site per Subchapter 5.5? ☐ YES ☒ NO
5. Does the facility have spill and overfill protection systems per Subchapter 4.1 and 4.5? ☐ YES ☒ NO
   If yes, are they properly operated and maintained as required by the UST Technical Regulations? ☐ YES ☒ NO
6. Have all Fill Ports been permanently marked as per API #1637 as stated in Subchapter 4.5(h)? ☐ YES ☒ NO

SECTION D

FINANCIAL RESPONSIBILITY

All facilities are required to obtain financial responsibility assurance by the deadlines listed in Subchapter 14. Please list the appropriate financial information below:

Type _____ Carrier/Issuing agency _____

Date Effective ____/____/____ Policy Number _____ $ Amount _____

CERTIFICATIONS

Who must sign?

CERTIFICATION NO. 1:

Must be signed by the highest ranking individual at the facility with overall responsibility

CERTIFICATION NO. 2:

Must be signed as follows
- For corporations, by the vice president or higher
- For sole proprietorships, by the proprietor
- For partnerships, by the general partner
- For government or public agency, by the principal executive officer or ranking official

NOTE: IF THE PERSON SIGNING CERTIFICATION No. 2 IS THE SAME AS THE PERSON SIGNING CERTIFICATION No. 1, THEN CERTIFICATION No. 1 ONLY NEEDS TO BE SIGNED. (If different persons are required to sign No. 1 and No. 2, then they must do so.)

No. 1

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment."

Robert Winemiller
(Signature)

Robert Winemiller
(Typed/Printed Name)

Borough Superintendent
(Title)

1/12/94
(Date Signed)

No. 2

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this transmittal and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including the possibility of fines and/or imprisonment."

Mary Anne Leon
(Signature)

Mary Anne Leon
(Typed/Printed Name)

Borough Clerk
(Title)

1/12/94
(Date Signed)

0097365
(UST Number)

EF-4095

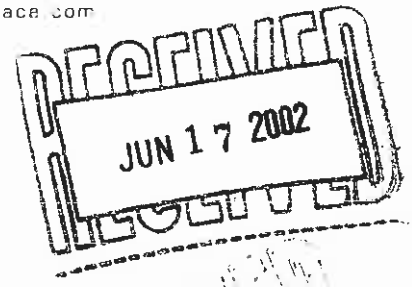
ELEVEN TINDALL ROAD MIDDLETOWN, NEW JERSEY 07748-2792
(732) 671-6400 • Fax (732) 671-7365 • www.tamace.com • info@tamace.com

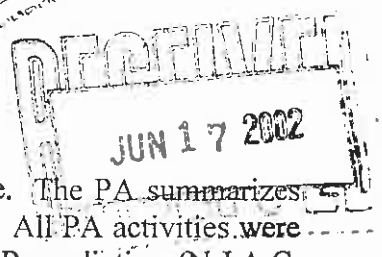
TM ASSOCIATES

SPLK-00061

98-11-12-0857-49

June 14, 2002





Bob Steinhagen
New Jersey Department of Environmental Protection
Bureau of Underground Storage Tanks
P.O. Box 433
401 East State Street
Trenton, NJ 08625-0433

Re: Department of Public Works - Monmouth & Fifth Avenues
Borough of Spring Lake
Preliminary Assessment Report Submittal

Dear Mr. Steinhagen:

Enclosed is the *Preliminary Assessment (PA)* for the above referenced site. The PA summarizes activities performed in accordance with your letter dated August 1, 2000. All PA activities were performed in accordance with NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

In accordance with NJAC 7:26-1.2 et. seq., we have s gned by the Spring Lake Borough Administrator and notarized by a n

- no proposal to delin Pb
- no discuss groups (2)
- no 11 salt bunker
- what remedy do? partial/whole HP

If you have any questions, please call.

Very truly y

T&M ASSOCIATES

JOHN E. VANDERSLICE, P.G.
PRINCIPAL HYDROGEOLOGIST

JEV:scb
Enclosures
cc: Thomas A. Ferguson, Borough Administrator (w/enclosures)
H:\SPLK\00061\Correspondence\steinhagen_JEV_PALOT.DOC

CERTIFICATIONS
N.J.A.C. 7:26-1.2 et. Seq.

Any person making a submission to the Department required by this chapter and pursuant to N.J.SA.C. 7:26E, shall include the following signature and notarized certification, for each technical submittal. Additionally, the certification shall indicate the case name and address, case number, type of documents submitted, e.g. Remedial Action Report, for each technical submittal.

TYPE OF DOCUMENT Preliminary Assessment Report

CASE NAME Borough of Spring Lake

CASE ADDRESS Monmouth and Fifth Avenues, Spring Lake, Monmouth County, New Jersey

CASE NUMBER 98-11-12-0857-49

The following certification shall be signed by:

1. For a corporation, by a principal executive officer of tat least the level of vice president;
2. For a partnership or sole proprietorship, by general partner of the proprietor, respectively, or;
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.
4. For persons other than 1 through 3 above, the person with legal responsibility for the site.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement that I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

PRINTED NAME Thomas A. Ferguson TITLE Borough Administrator

SIGNATURE [signature] DATE 6/13/02

NOTARY SIGNATURE [signature] DATE 6/13/02

MARY ANNE COOGAN
Notary Public Of New Jersey
My Commission Expires Jan. 30, 2006

PRELIMINARY ASSESSMENT REPORT (PA)

Pursuant to the New Jersey Technical Requirements for Site Remediation (N.J.A.C. 7:26E-3.1 and 3.2)

Spring Lake Department of Public Works
Monmouth and Fifth Avenues
Block 26, Lot 1
Spring Lake, Monmouth County, New Jersey

Prepared for

Borough of Spring Lake
Fifth and Warren Avenue
Spring Lake, New Jersey 07762

Prepared by:

JOHN E. VANDERSLICE, P.G.
PRINCIPAL HYDROGEOLOGIST

ELEVEN TINDALL ROAD
MIDDLETOWN, NJ 07748
(732) 671-6400

MAY 2002

Project No. SPLK-00061

EF-4095

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3. SITE MAP
4. SOIL MAP

APPENDIX A: SITE RECONNAISSANCE CHECKLIST
APPENDIX B: SITE INSPECTION PHOTOGRAPHS
APPENDIX C: STANDARD ENVIRONMENTAL RECORD SEARCH
APPENDIX D: LIST OF KNOWN CONTAMINATED SITES IN THE BOROUGH OF SPRING LAKE
APPENDIX E: CONTACTS AND CONSULTATIONS

I. EXECUTIVE SUMMARY

The summary findings of this Preliminary Assessment indicate five (5) Area of Concerns (AOC's) on the subject property.

AOC #1: One (1) 3,000-gallon double-walled aboveground storage tank containing equal quantities of diesel and unleaded gasoline in the central portion of the site.

AOC #2: Former 1,000-gallon diesel UST, 1,000-gallon leaded gasoline UST, 2,000-gallon diesel UST, 1,000-gallon waste oil UST and 1,000-gallon unleaded gasoline UST.

AOC #3: Former municipal waste incinerator is located in the southwest corner of the site.

AOC #4: The sand and rock salt bay in the southwest corner of the site.

AOC #5: Recycling dumpsters located throughout the site.

II. SCOPE OF PRELIMINARY ASSESSMENT

2.1 Statement of Work

This Preliminary Assessment has been conducted pursuant to the New Jersey Technical Requirements for Site Remediation (N.J.A.C. 7:26E-3.1 and 3.2).

N.J.A.C. 7:26E-3.1 and 3.2 set forth the Technical Requirements for conducting Preliminary Assessments. In New Jersey, this practice is intended to satisfy the New Jersey Department of Environmental Protection (NJDEP) requirements identifying "Areas of Concern". Compliance with this regulation is intended to serve as evidence that the owner or purchaser at this point in time has completed the process intended to qualify for the "innocent landowner defense" under the Comprehensive Environmental Response Compensation and Liability Act of 1980 known as CERCLA (42 U.S.C. 9601 et seq.) and the New Jersey Spill Compensation and Control Act (N.J.S.A. 58:10-23.11a et seq.).

Areas of Concern

The purpose of conducting a Preliminary Assessment is to identify Areas of Concern that are on the subject property. The term *Area of Concern* is defined as: any *existing or former location where hazardous substances, hazardous wastes, hazardous constituents or pollutants are or were known or suspected to have been discharged, generated, manufactured, refined, transported, stored, handled, treated, disposed or where hazardous substances, hazardous wastes, hazardous constituents or pollutants have or may have migrated.* The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. The term "Area of Concern" is synonymous with the term "Recognized Environmental Condition" as used and defined by the American Society of Testing and Materials (ASTM) in their publication E-1527-97.

2.2 Special Terms and Conditions

Principles

The following principles are an integral part of the N.J.A.C. 7:26E Standard and are intended to be referred to in resolving any ambiguity or exercising such discretion as is accorded the user or environmental professional in performing a Preliminary Assessment or in judging whether a user or environmental professional has conducted diligent inquiry or has otherwise conducted an adequate Preliminary Assessment.

Uncertainty Not Eliminated

No Preliminary Assessment can wholly eliminate uncertainty regarding the potential for Areas of Concern in connection with a property which are not discoverable through the diligent inquiry pursued in compliance with N.J.A.C. 7:26E.

Diligent Inquiry

"Diligent inquiry" under N.J.A.C. 7:26E means a detailed historic record inquiry back to *January 1, 1932* or to a period when the site was naturally vegetated or utilized as farmland (whichever is earlier) or until data failure (i.e. the lack of available historic records dating back this far). Site history information is typically obtained from sources including, but not limited to Sanborn Fire Insurance Maps, McRae's Industrial Directory, Title and Deed, Site Plans and federal, state and local government files.

Environmental Sampling

In the State of New Jersey, environmental sampling and testing is conducted under the *Site Investigation* practice pursuant to the Technical Requirements. N.J.A.C. 7:26E-3.3 that requires sampling of Areas of Concern *which may have a pathway to the environment.* The purpose of sampling is to identify potential contamination in and around any identified Areas of Concern and to determine if further action (remediation) is warranted.

III. SITE HISTORY

The following sections conform to the Preliminary Assessment requirements at N.J.A.C. 7:26E-3.1 which are fully addressed with the appropriate citations listed.

3.1 Location and Legal Description

The ± 6.97 acre property is bounded by Fifth Ave. to the east, Monmouth Ave. to the north, Wreck Pond to the south, and the New York and Long Branch Railroad to the west. The site is currently indicated as Tax Lot 26 of Block 1 in the Borough of Spring Lake, Monmouth County, New Jersey. The United States Geological Survey (USGS) Topographic Quadrangle and Municipal Tax Map for the subject property are included as Figures 1 and 2, respectively.

3.2 Site Inspection

Pursuant to N.J.A.C. 7:26E, an on-site inspection was conducted on May 16, 2002. A T&M Associates engineering technician walked the entire site looking for any type of site improvements or contamination. Based upon inspection and current aerial photos the property currently is developed. A completed site reconnaissance checklist is included in Appendix A. Photographs taken during the site inspection are included in Appendix B. A site map is included as Figure 3.

During the site inspection, five (5) "readily observable or discoverable" Areas of Concern were identified on the property. These are:

- AOC #1: One (1) 3,000-gallon aboveground storage tank in the central portion of the site.
- AOC #2: Former 1,000-gallon diesel UST, 1,000-gallon leaded gasoline UST, 2,000-gallon diesel UST, 1,000-gallon waste oil UST and 1,000-gallon unleaded gasoline UST.
- AOC #3: Former municipal waste incinerator found in the southwest corner of the site.
- AOC #4: The sand and rock salt bay in the southwest corner of the site.
- AOC #5: Recycling dumpsters located throughout the site.

3.3 Operational and Ownership History

It appears from Sanborn Fire Insurance Maps of the subject property that the Borough of Spring Lake has operated its water works yard and public works yard since at least 1905. The Sanborn Fire Insurance Maps are in Appendix C.

3.4 Descriptions of Past Operations

Pursuant to N.J.A.C. 7:26E-3.1(c)1.ii.(4), the following is a brief description of the prior operations on the property.

Information was requested from the following agencies with regards to past operations; the Borough of Spring Lake Department of Public Works Director and Environmental Data Resources (EDR). The subject property has been used as a water works yard and public works yard since at least 1905. An incinerator was used to burn municipal waste and later vegetative waste until the early 1970's. The incinerator ash was spread in the lowlands around the incinerator building.

3.5 Description of Most Recent Operation

Pursuant to N.J.A.C. 7:26E-3.1(c)1.(4), the following is a description of the most recent operation on the site.

The subject property currently is used as a Water Works Facility, Department of Public Works yard and residential recycling collection center.

3.6 Hazardous Substance/Waste Inventory

Pursuant to N.J.A.C. 7:26E-3.1(c)1.iii., the following is a discussion of all raw materials,

finished products, formulations and hazardous substances, hazardous wastes, hazardous constituents and pollutants which are or were present on the site, including intermediates and by-products.

Prior to September of 1998 the site contained a 1,000-gallon waste oil UST, 1,000 gallon leaded gasoline UST, 2,000 gallon diesel UST, 1,000 gallon diesel UST, and a 1,000 gallon unleaded gasoline UST. All UST's have been removed. There is a non-operational incinerator on site that which may have produced hazardous by-products.

A 3,000-gallon above ground storage tank with two 1,500-gallon inner compartments storing gasoline and diesel fuel.

Chlorine gas is used to disinfect water at the water works yard.

3.7 Summary of Wastewater Discharges of Sanitary and/or Industrial Waste

Pursuant to N.J.A.C. 7:26E-3.1(c)1.iv., the following is a discussion of the past and present production processes and their respective water use including the ultimate and potential discharge and disposal points and how and where materials are or were received on-site.

There have been no identified wastewater discharges of industrial wastes on the subject property.

3.8 Areas of Concern (AOCs)

Pursuant to N.J.A.C. 7:26E-3.1(c) 1.v. and the Preliminary Assessment Report Checklist list of Areas of Concern as defined at N.J.A.C. 7:26E-1.8.

AOC #1: One (1) 3,000-gallon aboveground storage tank in the central portion of the site.

AOC #2: Former 1,000-gallon diesel UST, 1,000-gallon leaded gasoline UST, 2,000-gallon diesel UST, 1,000-gallon waste oil UST and 1,000-gallon unleaded gasoline UST.

AOC #3: Former municipal waste incinerator located in the southwest corner of the site.

AOC #4: The sand and rock salt bay in the southwest corner of the site.

AOC #5: Recycling dumpsters located throughout the site.

3.9 Past Site Remediation

Pursuant to N.J.A.C. 7:26E-3.1(c)1.viii., the following is a discussion of the past remediation activities conducted on the site.

A Remedial Investigation Report and two Remedial Investigation Report Addenda were submitted to the NJDEP on December 1998, September 1999 and June 2000 respectively.

Five UST's (1,000-gallon waste oil UST, 1,000-gallon leaded UST, 2,000-gallon diesel UST, 1,000-gallon diesel UST and 1,000-gallon unleaded UST) were properly closed by

removal in September 1998.

Contaminated soil from the 1,000 gallon leaded UST was removed on July 2, 1999. Soil samples were taken and a groundwater temporary point was installed and sampled. Only trace contaminants of lead were detected in the groundwater sample.

Twelve soil samples were collected via six soil borings and one monitoring well, MW-1, was installed and sampled on March 1, 2000. Only lead was detected in soil samples.

The NJDEP issued a "No Further Action" for all five UST locations concluded with the NJDEP's letter dated August 1, 2000.

3.10 Historical Data on Environmental Quality

Pursuant to N.J.A.C. 7:26E-3.1(c)1.ix. and x., the following is a discussion of the existing sampling data concerning known contaminants on the site and any information regarding known changes in site conditions or new information developed since completion of previous sampling or remediation.

On March 1, 2000, twelve subsurface soil samples (SB-1A, SB-1B, SB-2A, SB-2B, SB-3A, SB-3B, SB-4A, SB-4B, SB-5A, SB-5B, SB-6A and SB-6B) were collected from within six boreholes located in the vicinity and downgradient of the former 1,000-gallon leaded gasoline UST excavation. All samples were analyzed for total lead. Additional analysis was performed on samples with the highest lead results (SB-1B and SB-6B) for toxicity characteristic leaching procedure (TCLP) metals. The laboratory analytical results for lead ranged from 4.8 mg/kg in samples SB-5A and SB-5B, to 8,410 mg/kg in sample SB-6B.

On March 1, 2000 a groundwater sample was collected from MW-1 and analyzed for volatile organic compounds, MTBE, TBA and lead. All compounds analyzed were reported below the most stringent NJDEP Ground Water Quality Criteria for IIA (NJDEP GWQCIIA) aquifers.

3.11 Discharge History of Hazardous Substances and Wastes

Pursuant to N.J.A.C. 7:26E-3.1(c)1.vii., the following is a discussion of the data or information concerning known discharges that have occurred on the site. The results of the Environmental Data Resources (EDR) report is included in Appendix C.

There are no records of any discharge.

3.12 Aerial Photographic Interpretation

An aerial photograph interpretation has been conducted on this property in order to determine/confirm the historical site use. Aerial photographs obtained through Environmental Data Resources, Inc. were reviewed for the following years: 1954, 1963, 1970, 1985, and 1995. The water works building, public works garage and office and the incinerator can be seen on all the aerials.

3.13 List of Federal, State and Local Permits

Pursuant to N.J.A.C. 7:26E-3.1(c) 1.xi., the following is a list of all Federal, State and local environmental permits for all previous and current owners or operators, applied for or received, or both, for the site.

There are no permits on record for this site.

3.14 Summary of Enforcement Actions

Pursuant to N.J.A.C. 7:26E-3.1(c)1.xii., the following is a list of all enforcement actions for alleged violations of environmental laws concerning the site.

3.15 List of Known Contaminated Sites in New Jersey Review

The list of Known Contaminated Sites in New Jersey was searched for sites in the Borough of Spring Lake (see Appendix D). Five (5) sites with a known source of contamination were identified on the database.

The nearest of the sites from the Known Contaminated Sites in New Jersey list is the Spring Lake Heights Borough located at 521 Atlantic Avenue. The subject site is in on the Known Contaminated Sites in New Jersey related to the lead detected at the 1,000-gallon leaded UST.

IV. PHYSICAL SETTING ANALYSIS

4.1 Soils

According to the *USDA Soil Survey of Monmouth County*, the following soil type is mapped on the subject property: EWB Evesboro-Klej sand-Urban land complex, 0 to 10 percent slopes.

Evesboro sand is described as excessively drained upland soil. The surface is grayish brown sand 2 inches thick. The subsurface layer is yellowish brown sand 5 inches thick. The subsoil is yellowish brown sand 25 inches thick. The substratum is yellowish brown sand to a depth of 60 inches thick. The seasonal water table is at a depth of more than six feet.

A Soils Map for the subject property is included as Figure 4 and is from the Soil Survey of Monmouth County, New Jersey and is published by the United States Department of Agriculture, Soil Conservation Service.

4.2 Topography

The subject property is relatively level with a slight slope towards the southeast. The property is at or near an elevation of approximately 10 feet above mean sea level.

4.3 Surface Water

The nearest surface water feature is Wreck Pond, located along the southern property line.

4.4 Wetlands

There are wetlands located along the southern property line of the site and are associated with Wreck Pond.

4.5 Geology and Hydrogeology

The site is located within the Atlantic Coastal Plain Physiographic Province of New Jersey. According to the New Jersey Geological Survey, the Tertiary-aged Vincentown Formation outcrops in the site area. In general, discrete sand and silty clays characterize the Vincentown. In many areas, the Vincentown is typically included as part of the Composite Confining Bed, a sequence of units characterized by low hydraulic conductivity/permeability, separating the unconfined Kirkwood-Cohansey aquifer system from older, undifferentiated, lower confined aquifer units.

In the site are, the Vincentown does not serve as a source of groundwater withdrawal. Aquifer recharge to this area is primarily from precipitation infiltrating outcrops. Near surface water bodies, minor amounts of recharge may occur through channel leakage into the underlying deposits

V. CONCLUSIONS, OPINIONS AND RECOMMENDATIONS

5.1 Conclusions

A "Preliminary Assessment" has been conducted on the property in question in conformance with the scope and limitations of the NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E) Sections 3.1 and 3.2. Any exceptions to, or deletions, from this practice are described in Section 2.2 of this report.

This Preliminary Assessment has revealed five Areas of Concern on the subject property.

AOC #1: One (1) 3,000-gallon aboveground storage tank in the central portion of the site appears to be in excellent working condition and shows no signs of spillage or leakage.

AOC #2: Former 1,000-gallon diesel UST, 1,000-gallon leaded UST, 2,000-gallon diesel UST, 1,000-gallon diesel UST and 2,000-gallon unleaded UST have been properly closed and removed. In the NJDEP letter dated August 1, 2000 a "No Further Action" was granted by the NJDEP for the UST's. The source of elevated lead concentrations is to be identified in this PA.

AOC #3: Incinerator found in the southwest corner of the site has closed and inoperable since approximately 1972. There seems to be no visible contamination of the surrounding area caused by the incinerator. The incinerator ash was spread about the property as evident in the soil borings performed in connection with the former 1,000-gallon leaded UST and is supported by the Fire Sanborn Map. This ash may be the source of the lead exceedences in the March 1, 2000 soil samples.

AOC #4: The sand and rock salt bay in the southwest corner of the site is well contained and covered to prevent displacement and water runoff.

AOC #5: Recycling dumpsters located throughout the site. The dumpsters are part of the Borough's resident recycling facility. All the dumpsters appear to be in good condition and donot contain any hazardous materials. The dumpsters hold paper products, wood, house hold appliances, plastics, glass and cans. All residential hazardous materials are collected by Monmouth County at its facility in Tinton falls.

5.2 Opinions

Based on the findings of this Preliminary Assessment, it is our opinion that there are five Areas of Concern associated with the prior and current uses of this subject property. Four of the five AOCs (AOC 1, AOC 2, AOC 4 and AOC 5) are either contaminant free or do not warrant further investigation. The elevated lead concentrations associated with AOC 3 appear to be related to the incinerator ash fill, which was spread throughout the lowland area along Fifth Avenue. Evidence of filling is illustrated on the FireSanborn Maps, which show tidal lowlands (North Branch of Wreck Pond), in the present location of the incinerator on the 1905 map and no tidal lowlands in the 1950 map. In Addition, ash fill was observed during well installation, soil boring advancement and soil excavation activities. The fill was generally observed from 3.5 feet to 8.0 feet below grade.

Soil results from a subsurface investigation performed on March 1, 2000 reported lead ranging in concentration from 4.8 mg/kg to 8,410 mg/kg (residential standard = 400 mg/kg) at SB-6B. The highest lead concentration was from a soil sample collected just south (towards Wreck Pond) from the public works yard entrance located on 5th and Atlantic Avenues. The two samples with the highest lead concentrations were further analyzed for TCLP Metals, to determine if lead or any other metal is leaching from the incinerator ash fill. Resultant lead concentrations were reported at 0.83 mg/kg and 55.3 mg/kg at SB-1B and SB-6B, respectively, well below the residential soil cleanup criterion of 400 mg/kg. No other metal concentration was reported above the most stringent soil cleanup criteria.

Based on the TCLP analytical results and groundwater analytical results for lead, it appears that the elevated total lead concentrations detected in the ash fill are not leaching from the ash fill into the groundwater. Lead has a limited ability to dissolve in groundwater and therefore a limited ability to travel within the soil and groundwater. This is substantiated by the March 1, 2000 groundwater sampling results in which lead was detected below the NJDEP GWQCIIA at monitoring well MW-1. Resultant groundwater analysis reported lead at 4.6 ug/L (micrograms per liter), which is below the groundwater quality standard of 10 ug/L. All other compounds tested were detected below the respective groundwater quality standards.

In summary, the lead concentrations are most likely a result of historic fill due to past operations conducted at this site. It appears that the site was formerly marshland, which was filled in with incinerator ash from approximately eight feet below grade to approximately three feet below grade. The ash layer is sandwiched or contained between two to three feet of clean sand above the ash layer and by a meadow mat consisting of dense dark gray clay below the ash layer. It appears that the sand above the ash fill and the meadow mat below the ash fill are preventing any lead migration.

We believe that although lead is detected in the buried ash from the incinerator it has not leached into the groundwater. It is our opinion that the ash layer is contained and there is

no evidence of lead migration, further investigation, action and/or remediation are not required since there is no risk to the environment of human health.

5.3 Recommendations

It is the client's choice to select the next level of inquiry based on his or her ownership, management, secured lending or fiduciary needs and responsibilities or any applicable requirements of law or regulations and the level of risk presented by the findings.

Based on the findings and conclusions listed above, areas of potential further inquiry and/or action is not recommended.

VI. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

JOHN E. VANDERSLICE, P.G.
Principal Hydrogeologist

PROFESSIONAL PROFILE:
B.S. Geology, Stockton State College, Pomona, NJ
M.S. Candidate Geology, Rutgers University, Newark, NJ

PROFESSIONAL AFFILIATIONS:
National Ground Water Association
Association of Engineering Geologists
Geological Association of New Jersey

PROFESSIONAL CERTIFICATIONS:
NJDEP Certified Subsurface Evaluator - License # 0012601
Professional Geologist License - State of Pennsylvania # PG-002915-G
NJDEP N-2 Industrial Wastewater Treatment Systems Operator License # 0008646
OSHA 40-hour Hazardous Waste Site Health & Safety Training
16- Hour Confined Space Training

EXPERIENCE:
Mr. Vanderslice has over ten years of experience in the field of environmental consulting. Since joining T&M, he has supervised and directed over 30 environmental projects from preliminary assessments and site investigations to corrective action. He has prepared Remedial Action Workplans proposing natural attenuation and has established Classification Exception Areas.

Prior to joining T&M Associates, Mr. Vanderslice served as a Project and Group Manager for Land Tech Remedial, Inc. where he worked for 2.5 years. His major responsibilities included:

Completion of Phase I, Phase II investigations and reports. Management of active remediation and intrinsic bioremediation projects for major oil companies. Completion of tenant compliance audits at industrial facilities for ISRA compliance. Management of field activities and preparation of tank excavation reports, Site Investigation Reports, Remedial Investigation Workplans, Remedial Action Workplans, and other reports for both clients and regulatory agencies. Coordination, preparation and review of cost proposals for sites involving soil and groundwater contamination. Preparation of scope of work proposals, budget tracking, contract negotiation, and project scheduling for remedial investigations. Field inspections to ensure all activities performed by contractors were in accordance with all applicable federal and state regulations. Oversight of the operation and maintenance of remedial treatment systems including groundwater pump and treat systems, soil vapor extraction, bioventing systems, and sparging systems. Supervised the installation of monitor wells, recovery wells, soil borings, interceptor trenches. Conducted aquifer testing (i.e., slug tests and long-term pumping tests), groundwater and soil sampling, soil vapor extraction/sparge testing. Provided contractor oversight on tank excavations and removals.

Mr. Vanderslice has also worked with Groundwater Environmental Services, Inc. in Wall, New Jersey, DUNN Geoscience of Parsippany, New Jersey, and Science Applications International Corporation in Paramus, New Jersey.

TIMMIE PERRY, JR.

Environmental Technician

EDUCATION
College of New Jersey,
Mathematics

YEARS IN THE INDUSTRY: 2

AREA OF EXPERTISE:
Hazardous Waste Remediation,
AutoCAD Drafting

SUMMARY OF QUALIFICATIONS

Since Joining T&M, Mr. Perry has supervised and directed over 10 environmental projects from preliminary assessments and site investigations to corrective action at publicly owned sites to brownfield properties. He has prepared Remedial Action Workplans proposing natural attenuation and has established Classification Exception Areas. He has provided inspection and contract administration for underground storage tank removal (UST) and aboveground storage tank (AST) installation.

Mr. Perry has prepared AutoCAD drawings for construction details, as-builts and site plans related to a variety of projects, including civil, mechanical and electrical designs.

PROFESSIONAL EXPERIENCE

Schering Plough – Manati and Las Piedras, Puerto Rico.

- Responsibilities included field management and documentation of existing utility supply systems, HVAC and process and packaging systems for the creation of AutoCAD drawings. All tasks performed were in support of Schering's on-going efforts for the validation of both locations.

Bernards Township, Landfill Facility

- Preparation of AutoCAD drawings for construction of piping and sampling systems
- Preparation of AutoCAD for construction details
- Site investigation

Asbury Park Department of Public Works UST Removal

- Preparation of AutoCAD site plans and gradient maps
- Site Inspection
- Groundwater sampling
- Site survey
- Preparation of site inspection reports and remedial investigation reports

Jackson Board of Education Bus Maintenance Facility

- Preparation of AutoCAD site plans and gradient maps
- Review of contract quantities
- Preparation of pay estimates and change orders
- Preparation of remedial investigation reports
- Groundwater sampling

PROFESSIONAL EXPERIENCE (CON'T)

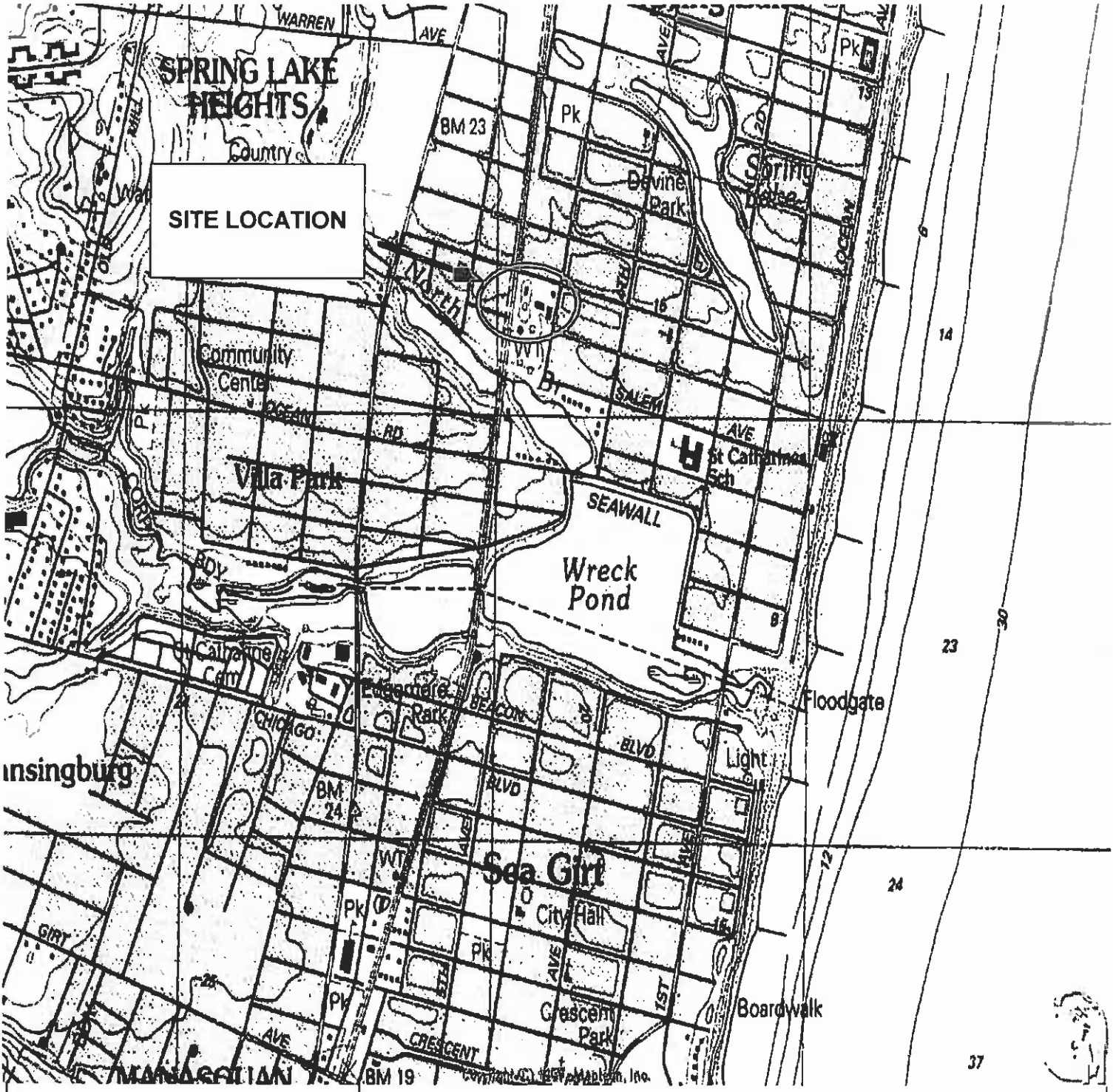
Middlesex, Joseph Medwick Park

- Preparation of AutoCAD site plans and as-builts
- Site Inspection
- Review of contract quantities
- Preparation of pay estimates and change orders
- Preparation of site inspection reports and remedial investigation reports

Garden State Parkway Interchange 69

- Septic system and potable well design

FIGURES



TM ASSOCIATES

ELEVEN TINDALL ROAD
MIDDLETOWN, NEW JERSEY 07748
PHONE:(732) 671-6400 FAX (732) 671-7365

0 2000 4000

SCALE IN FEET

USGS QUADRANGLE

BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
5TH AND MONMOUTH AVENUES

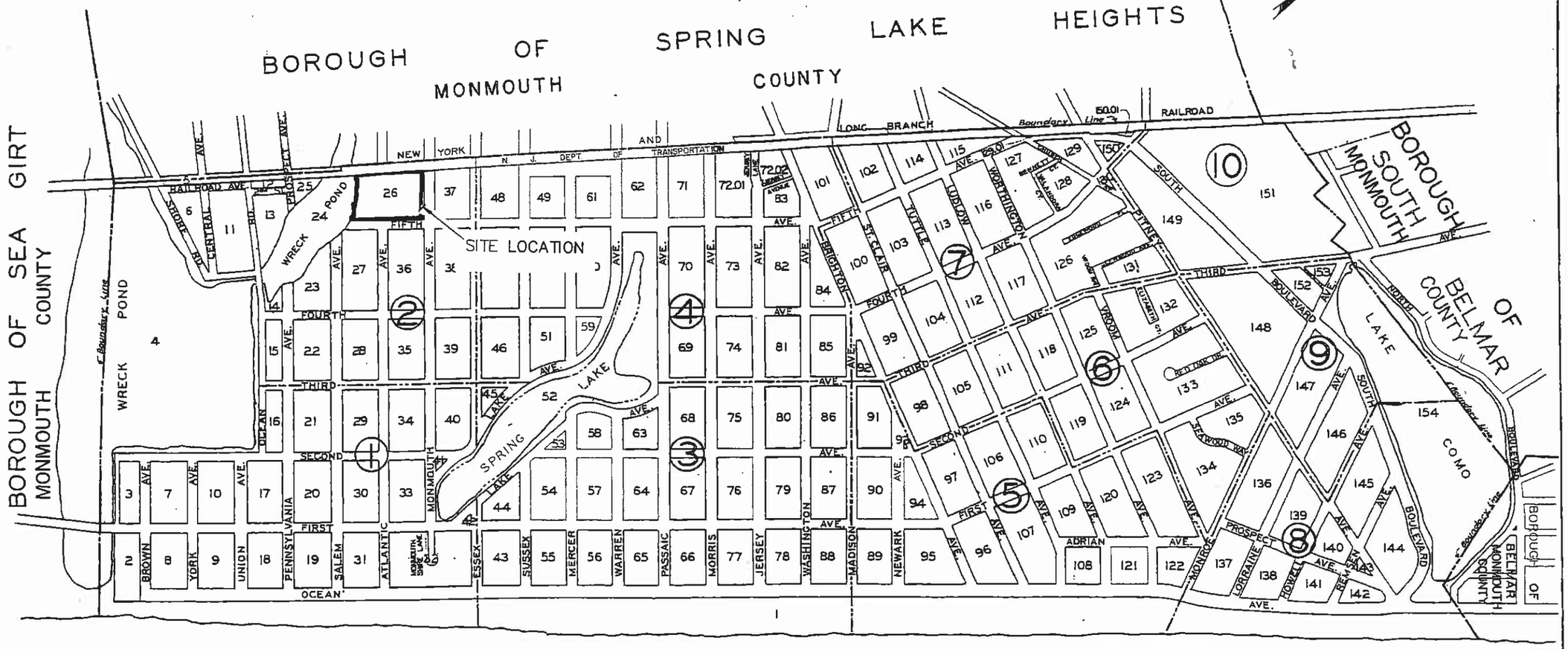
SOURCE: USGS - ASBURY PARK, NJ QUADRANGLE (1981)

N

APRIL 2002	SPLK-00061	FIGURE 1

DATE	NAME	LIC. NO.
DEC. 1988	ROBERT L. FARRY	13444
SEPT. 22, 1987	ROBERT L. FARRY	13444
MAY 1989	BIRDSALL ENGINEERING, INC. ROBERT L. FARRY P.L.S.	13444
DEC. 1990	BIRDSALL ENGINEERING, INC. ROBERT L. FARRY P.L.S.	13444
DEC. 1991	BIRDSALL ENGINEERING, INC. ROBERT L. FARRY P.L.S.	13444
DEC. 1992	BIRDSALL ENGINEERING, INC. ROBERT L. FARRY P.L.S.	13444

KEY MAP



ATLANTIC

LEGEND

TAXING BLOCK NUMBER	3
TAXING LOT NUMBER	3
ORIGINAL LOT NUMBER	3
ORIGINAL TRACT NAME	CARTER
ADJOINING SHEET NUMBER	③
BOUNDARY OF LANDS OF A SINGLE OWNER	———
TAXING & ORIGINAL LOT LINES	———
ORIGINAL BLOCK NUMBER	③
ORIGINAL SUBDIVISION LOT LINES WHERE LAND HAS BEEN RESUBDIVIDED	———

TAX MAP

BOROUGH OF SPRING LAKE
MONMOUTH COUNTY, NEW JERSEY

REVISED TO SHOW CONDITIONS AS OF MAY 1989.

THIS TAX MAP SUPERSEDES ALL PREVIOUS TAX MAPS.

THE AREAS, BOUNDARIES AND DIMENSIONS ON THIS MAP ARE TO BE USED FOR ASSESSMENT PURPOSES ONLY.
REVISED BY THE BIRDSALL CORP. JUNE 10, 1982
ROBERT L. FARRY L.S. 13444

SCALE IN FEET
0 100 400 2000
50 200 1200

I HEREBY CERTIFY THAT THIS MAP HAS BEEN REVISED UNDER MY IMMEDIATE SUPERVISION AND COMPLIES WITH THE LAWS OF THE STATE OF NEW JERSEY.
Robert L. Farry
ROBERT L. FARRY L.S. Lic. Nº 13444

OCEAN

TAX MAP
BOROUGH OF SPRING LAKE
MONMOUTH COUNTY, N. J.
SCALE 1" = 400' MARCH 5, 1982
THE BIRDSALL CORPORATION
1700 "F" STREET, SOUTH BELMAR, N.J.
WILLIAM T. BIRDSALL P. E.
BOROUGH ENGINEER, Lic. Nº 25535
ROBERT L. FARRY L. S.
Lic. Nº 13444

NEW JERSEY DEPARTMENT OF THE TREASURY
DIVISION OF TAXATION
LOCAL PROPERTY AND PUBLIC UTILITY BRANCH
APPROVED AS A TAX MAP PURSUANT TO THE PROVISIONS OF CHAPTER 73, LAWS OF 1918, FOR THE DIRECTOR, DIVISION OF TAXATION
BY _____ P.E. & L.S. SUPERINTENDENT
DATE MAY 18 1982 SERIAL NO. 606

NEW JERSEY DEPARTMENT OF THE TREASURY
APPROVED AS A TAX MAP PURSUANT TO THE PROVISIONS OF CHAPTER 175 LAWS OF 1918
BY _____
DATE 1982 SERIAL NO. 182

TM ASSOCIATES
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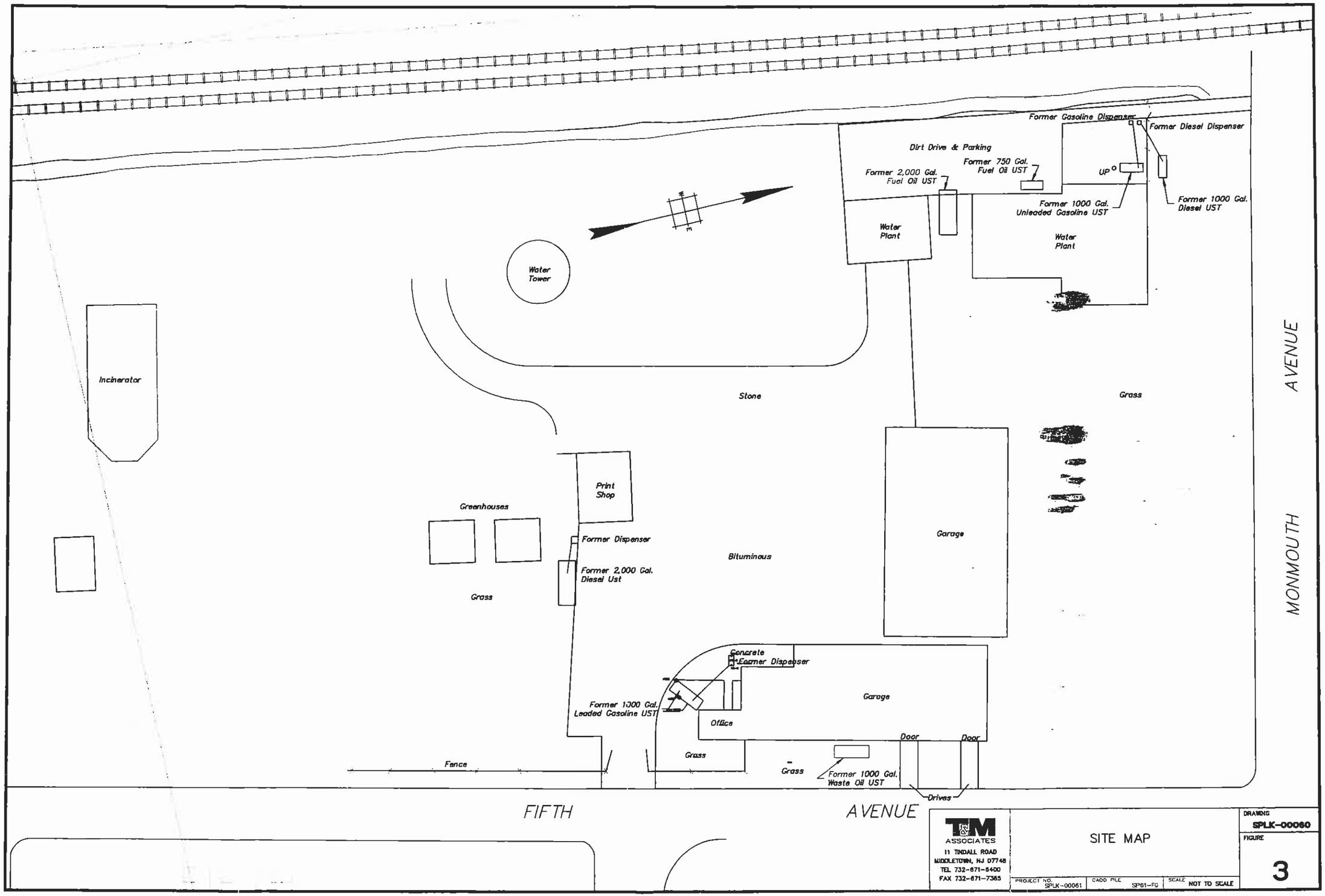
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

TAX MAP

PROJECT NO. | CADD FILE | SCALE NOT TO SCALE

DRAWING SPLK-00060
FIGURE 2



T&M ASSOCIATES
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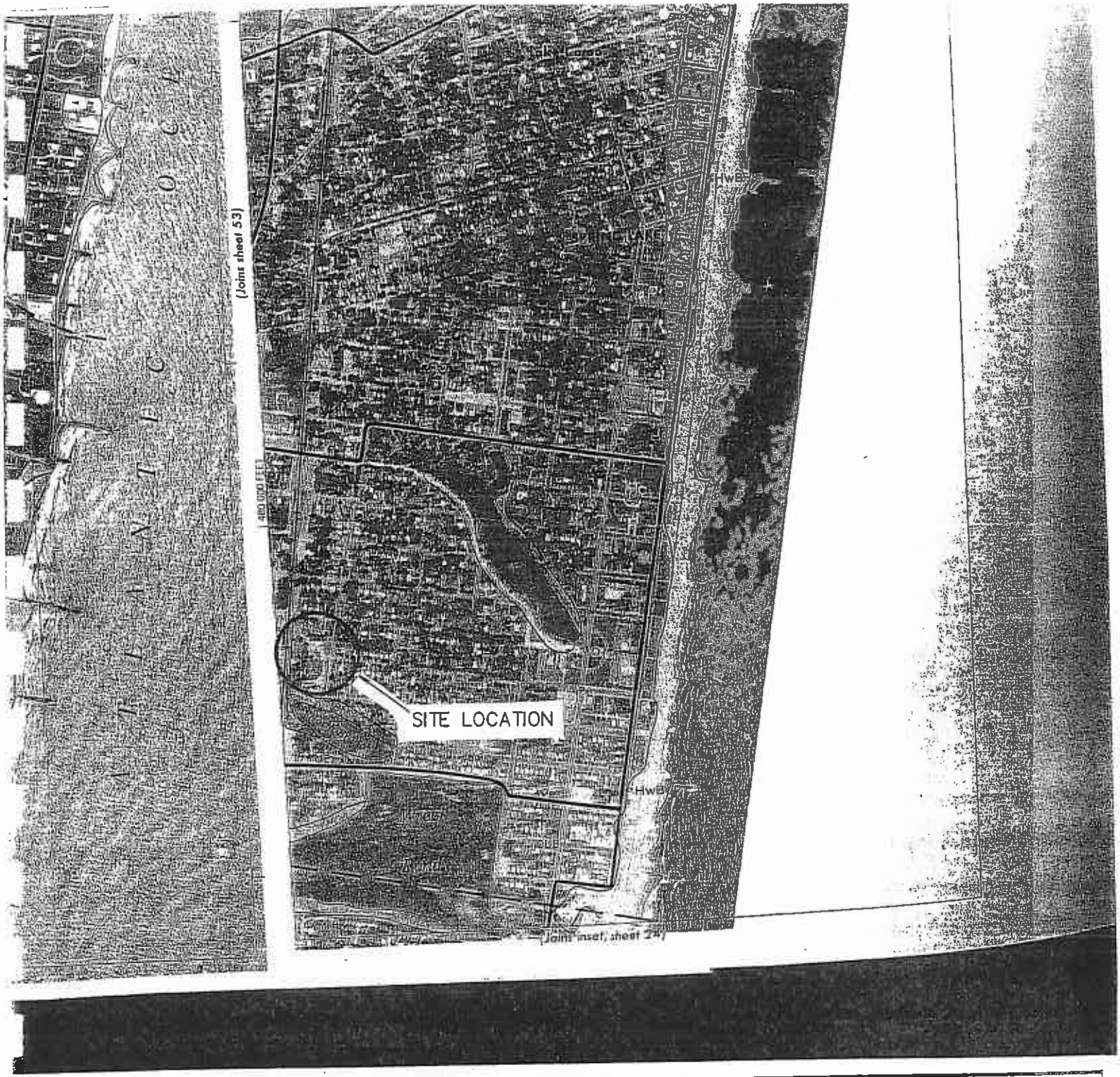
FAX 732-671-7365

SITE MAP

PROJECT NO.	CADD FILE	SCALE
SPLK-00061	SP61-FG	NOT TO SCALE

DRAWING
SPLK-00060

FIGURE
3



TM ASSOCIATES ELEVEN TINDALL ROAD MIDDLETOWN, NEW JERSEY 07748 PHONE:(732) 671-6400 FAX (732) 671-7365	**SOIL MAP** **BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS** **5TH AND MONMOUTH AVENUES**		
0 2000 4000 SCALE IN FEET	SOURCE: USGS - ASBURY PARK, NJ QUADRANGLE (1981)		N
	MAY 2002	SPLK-00061	FIGURE 4

Appendix A
Site Reconnaissance Checklist

Physical Findings Only

Client Name: ***Borough of Spring Lake***

Project No: ***SPLK-00061*** Contact: ***Mr. RobertWeinmiller*** Phone: ***(732) 449-7598***

Property or Building Name and Address: ***Monmouth and Fifth Avenues Borough of Spring Lake, Monmouth County, New Jersey County, New Jersey*** Tax Lot(s): **26** Block: ***2***
Acreage: ***6.97*** Basement Y/N: ***No*** Stories: ***2*** Sq. Ft: ***304,000***

General Property Description: ***Department of Public Works Yard and Water works Facility***

Neighborhood: ***Residential***

Site Inspector:
Sign Name _____ Site Visit Date: ***May 16, 2002***

Print Name: ***Timmie Perry*** Phone: ***(732) 671-6400***

SUMMARY OF THE PHASE I ESA SITE CHECKLIST
(ASTM PRACTICE E-1527-97)

These findings are based on the discovery of readily observable physical evidence during an on-site property reconnaissance and assessment of adjoining properties from their perimeter. Provide an explanation for any "yes" answer on Line #36, Page 4 or attachments.

	Recognized or Suspect Environmental Conditions (Based on Existing Physical Evidence)	**Subject Property**		**Adjoining Properties(*)**	
		Yes	No	Yes	No
1.	An existing industrial site	[ ]	[X]	[]	[X]

Note: (*) ***The responses to the adjoining properties reconnaissance are limited to the extent of the visibility of the properties from their public perimeters, therefore, limiting the comprehensiveness of the response.***

(Continued)

	Recognized or Suspect Environmental Conditions (Based on Existing Physical Evidence)	Subject Property		Adjoining Properties(*)	
		Yes	No	Yes	No
2.	A known or suspect past industrial site	[ ]	[X]	[ ]	[X]
3.	An existing potentially hazardous commercial activity; i.e.,	[X]	[ ]	[ ]	[X]
4.	A known or suspect past commercial activity; i.e.,	[ ]	[X]	[ ]	[X]
5.	Discarded car batteries or chemicals in greater than 5-gallon containers or 50 gallons in aggregate	[ ]	[X]	[ ]	[X]
6.	Current use or storage of tank trucks, drums or other containers of gas, liquids or powders	[X]	[ ]	[ ]	[X]
7.	Signs of fill dirt	[X]	[ ]	[ ]	[X]
8.	Waste piles, pits or lagoons	[ ]	[X]	[ ]	[X]
9.	Stained soil or pavement greater than 1 meter in diameter	[ ]	[X]	[ ]	[X]

Note: (*) ***The responses to the adjoining properties reconnaissance are limited to the extent of the visibility of the properties from their public perimeters, therefore, limiting the comprehensiveness of the response.***

(Continued)

	Recognized or Suspect Environmental Conditions (Based on Existing Physical Evidence)	Subject Property		Adjoining Properties(*)		
		Yes	No	Yes	No	Unk
10A.	Underground storage tanks	[ ]	[X]	[ ]	[X]	[ ]
10B.	Any records available on tank testing, leaks, spills, permit, age, tank protection or leak detection	[X]	[ ]	[ ]	[X]	
11A.	Aboveground storage tanks	[X]	[ ]	[ ]	[X]	
11B.	Leaking or spills around above ground storage tanks	[ ]	[X]	[ ]	[X]	
12A.	Stained floors, walls, drains	[ ]	[X]	N/A		
12B.	Unidentified suspect odors	[ ]	[X]	[ ]	[X]	
13A.	Is the site served by private well	[ ]	[X]	N/A		
13B.	If yes, contact Health Department	[ ]	N/A	N/A		
13C.	Groundwater monitoring well on site	[X]	[ ]	[ ]	[X]	
14.	Environmental liens		N/A	N/A		
15.	Environmental violation notices	[ ]	N/A	N/A		
16.	Prior study hazard findings	[X]	[ ]	N/A		
17.	Hazardous release lawsuits	[ ]	N/A	N/A		
18.	Surface discharges of waste water	[ ]	[X]	[ ]	[X]	
19.	Past waste dumping evidence	[X]	[ ]	[ ]	[X]	
20.	Leaking (or non-accessible) hydraulic or electrical equipment (suspect PCB's) or PCB labeled equipment	[ ]	[X]	[ ]	[X]	

Note: (*) ***The responses to the adjoining properties reconnaissance are limited to the extent of the visibility of the properties from their public perimeters, therefore, limiting the comprehensiveness of the response.***

(Continued)

	Recognized or Suspect Environmental Conditions (Based on Existing Physical Evidence)	Subject Property		Adjoining Properties(*)	
		Yes	No	Yes	No
21.	Distressed vegetation	[ ]	[X]	[ ]	[X]
22.	Oil sheens on water (puddles, streams, ponds)	[ ]	[X]	[ ]	[X]
23.	Obvious streams, ponds, or swamps and potential wetland fringes	[X]	[]	[ ]	[X]
24.	Active or fallow agricultural land	[ ]	[X]	[ ]	N/A
25.	Is the site served by a septic system	[ ]	[X]	[ ]	[X]
26.	Is the site served by an oil furnace	[ ]	[X]	N/A	
27.	Other Abandoned Incinerator	[X]	[ ]	N/A	
28.	Potential hazard photographs	[X]	[ ]	[ ]	[X]
29.	Known or approximate age of Building(s)	OVER 100 YEARS		N/A	
Optional Testing (If Authorized)		**Sample Taken**			
30.	Drinking water lead check	[ ]	[X]	N/A	
31.	Lead paint check (built prior to 1978)	[ ]	[X]	N/A	
32.	Friable asbestos check (built prior to 1980)	[ ]	[X]	N/A	
33.	Radon check	[ ]	[X]	N/A	
34.	Stained soil check	[ ]	[X]	N/A	
35.	Soil samples	[]	[X]	N/A	

Note: (*) ***The responses to the adjoining properties reconnaissance are limited to the extent of the visibility of the properties from their public perimeters, therefore, limiting the comprehensiveness of the response.***

(Continued)

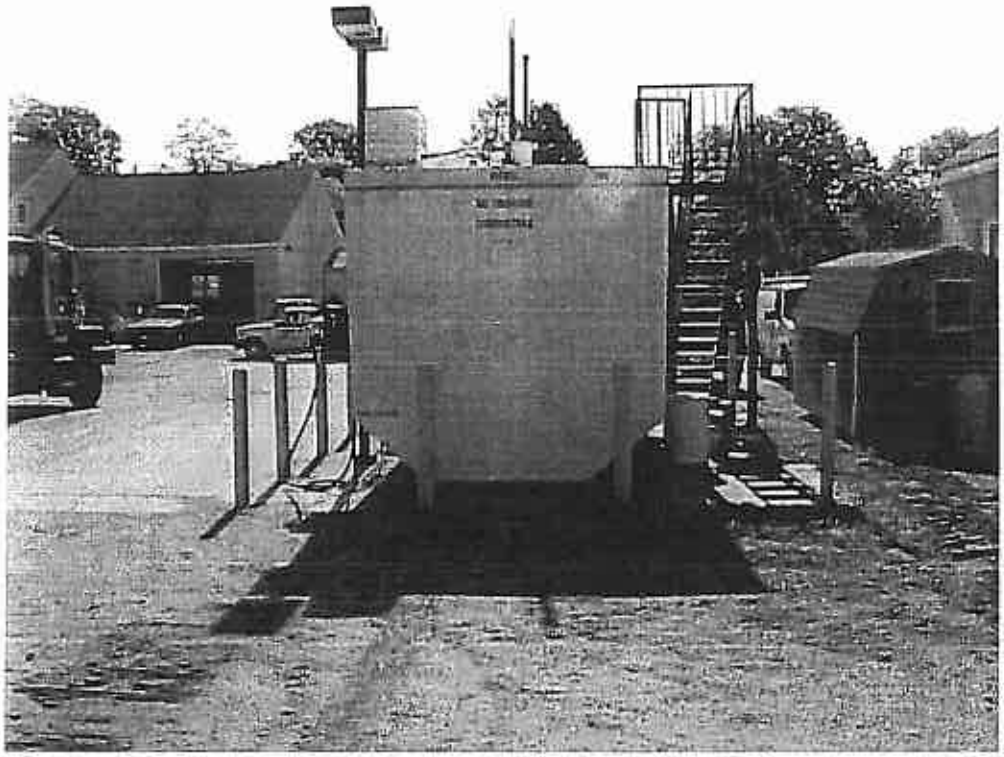
36. DESCRIPTION OF FINDINGS
Add attachments as necessary and list in numerical order.

13A. All the water on site is served from an on site municipal supply well.

19. Past waste dumping is the ash from the former incinerator. This was discovered in soil borings from the March 1, 2000 soil sampling event.

35. Soil samples were collected during the March 1, 2000 sampling event. No samples have been collected since.

Appendix B
Site Inspection Photographs



3,000 GALLON ABOVEGROUND FUEL TANK

STOCKPILE OF SAND AND ROCK SALT

INCINERATOR BUILDING

RECYCLING DUMPSTERS

Appendix C
Standard Environmental Record Search

Environmental Data Resources, Inc.

"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Timmie Perry
T & M Associates
11 Tindall Road
Middletown, NJ 07748

1014121DJV 732-671-6400

Order Date: 3/1/2002 **Completion Date:** 03/01/2002
Inquiry #: 740421.4s
P.O. #: NA
Site Name: Department of Public Works
Address: Fifth Avenue/Monmouth Avenue
City/State: Springlake, NJ 07762
Cross Streets: Fifth Ave/Monmouth Ave

Based on client-supplied information, fire insurance maps for the following years were identified

1905 - 2 - maps
1950 - 2 - maps
1966 - 2 - maps

Total Maps: 6

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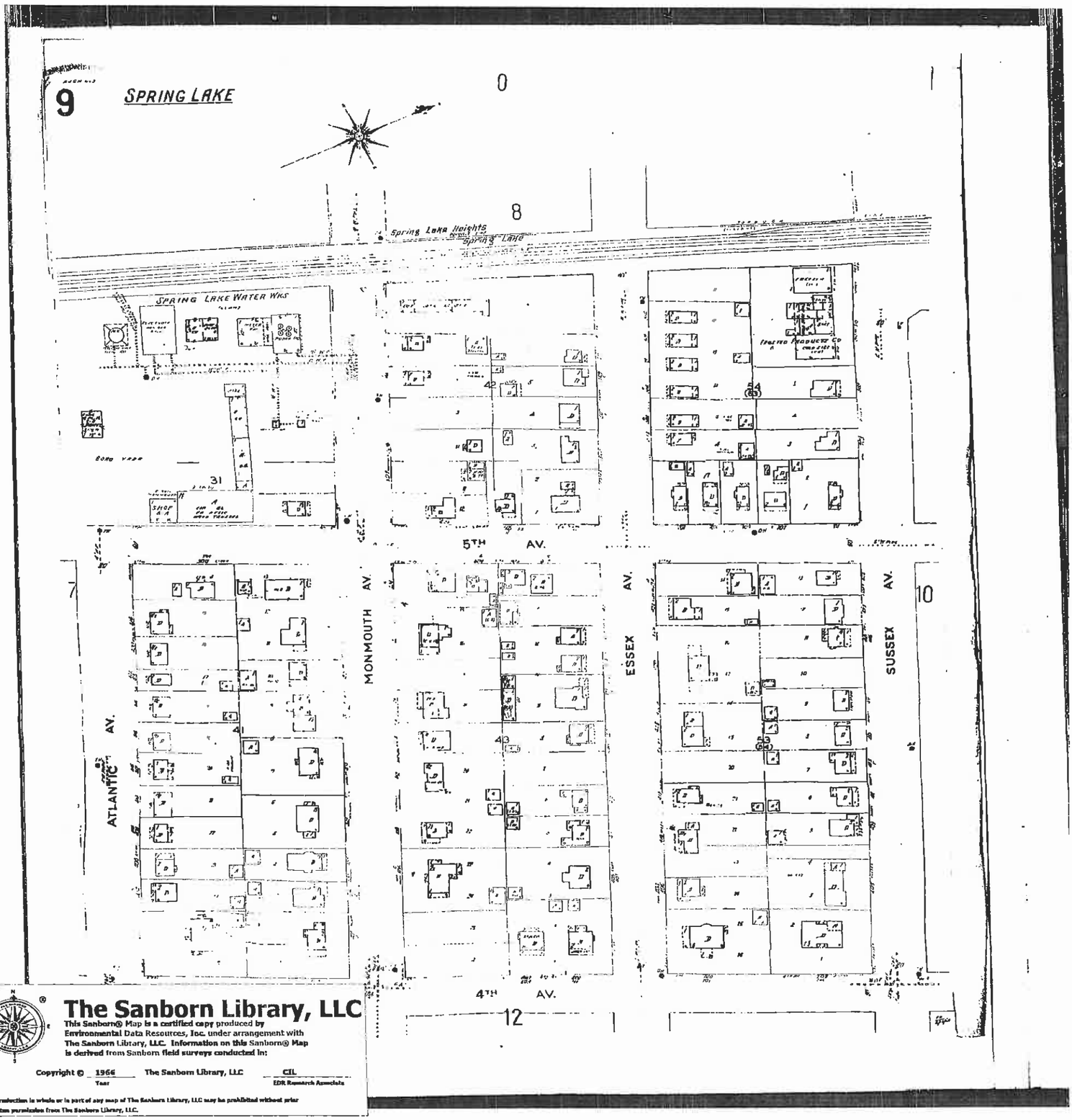

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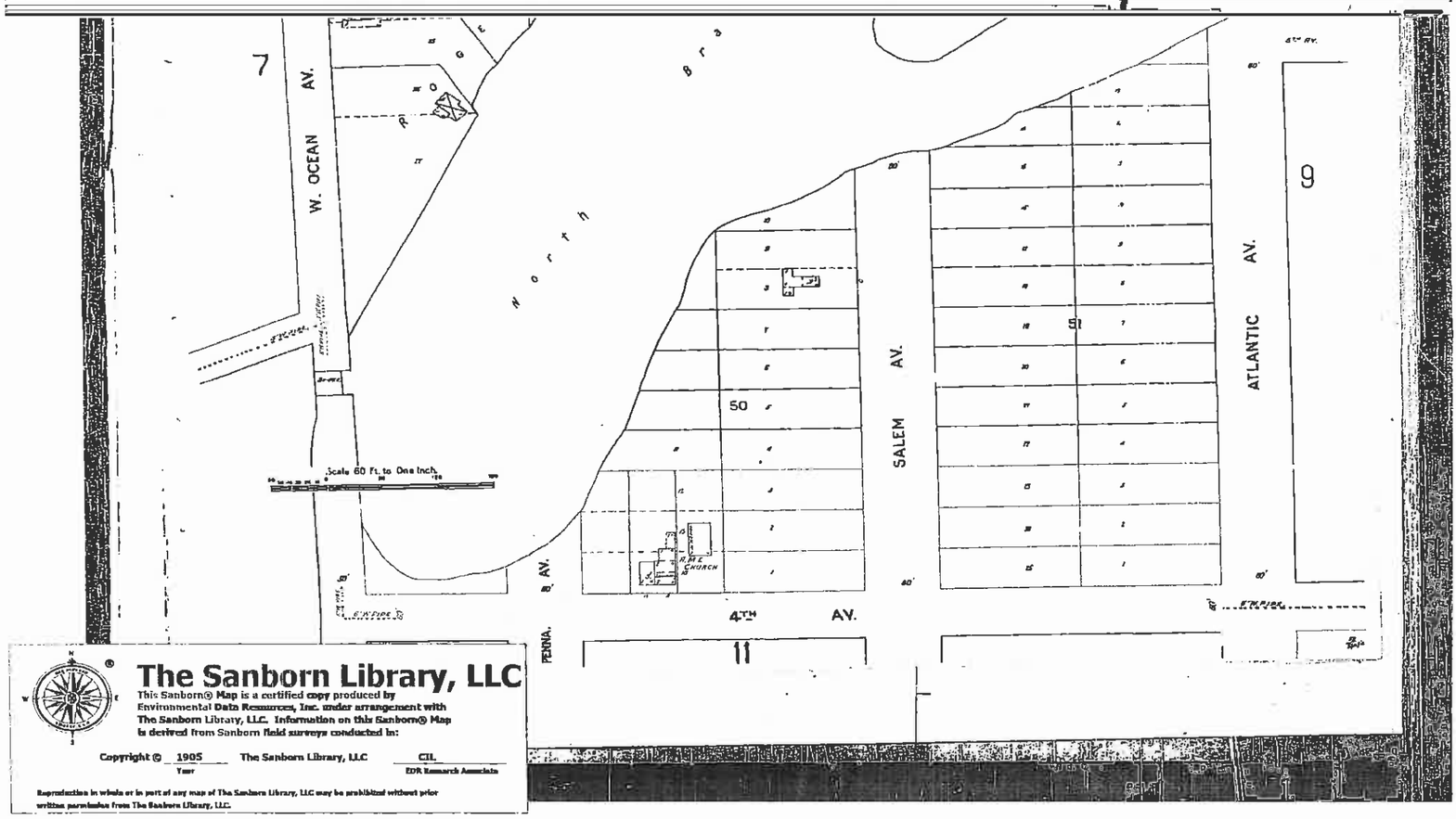

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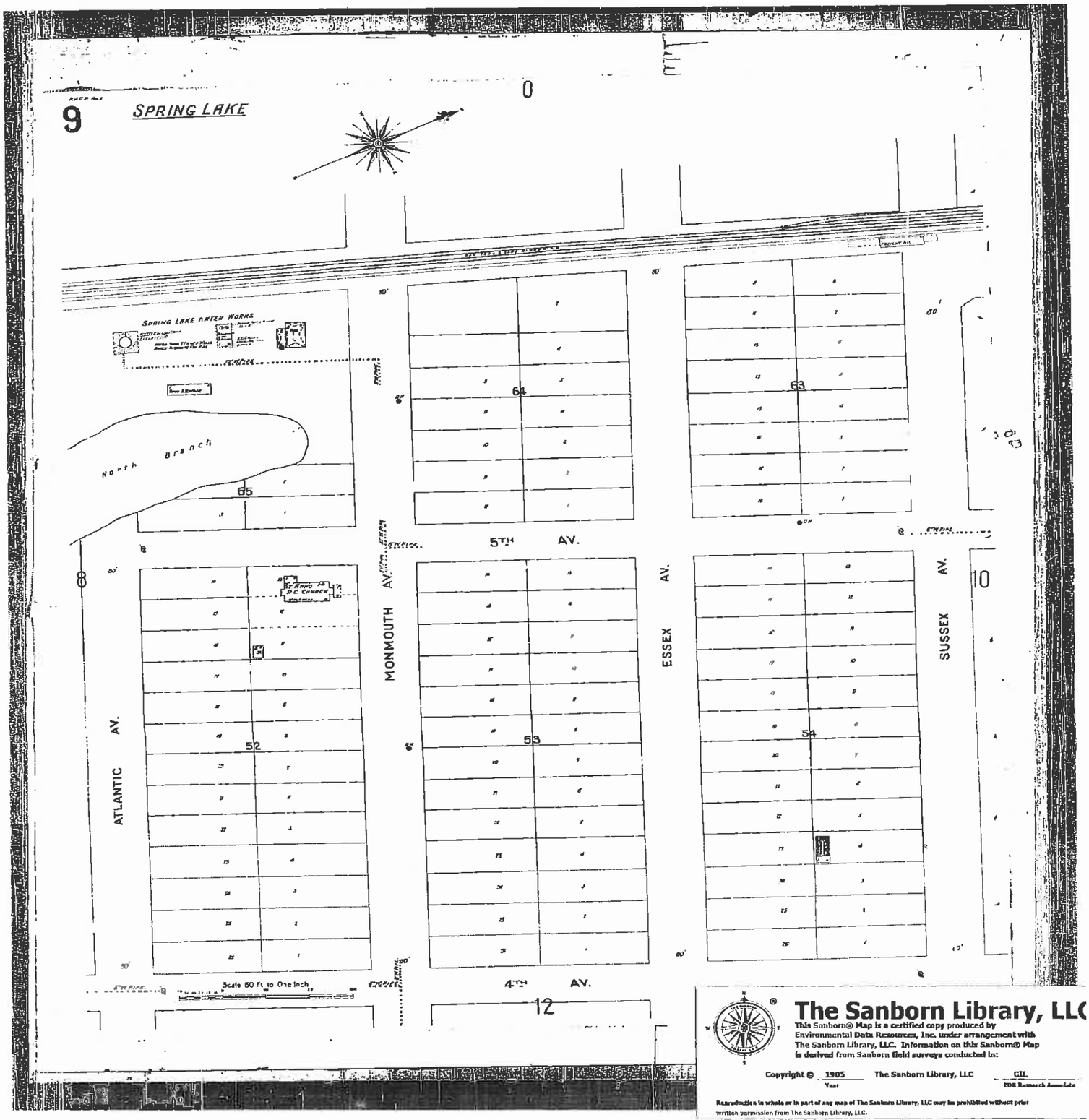

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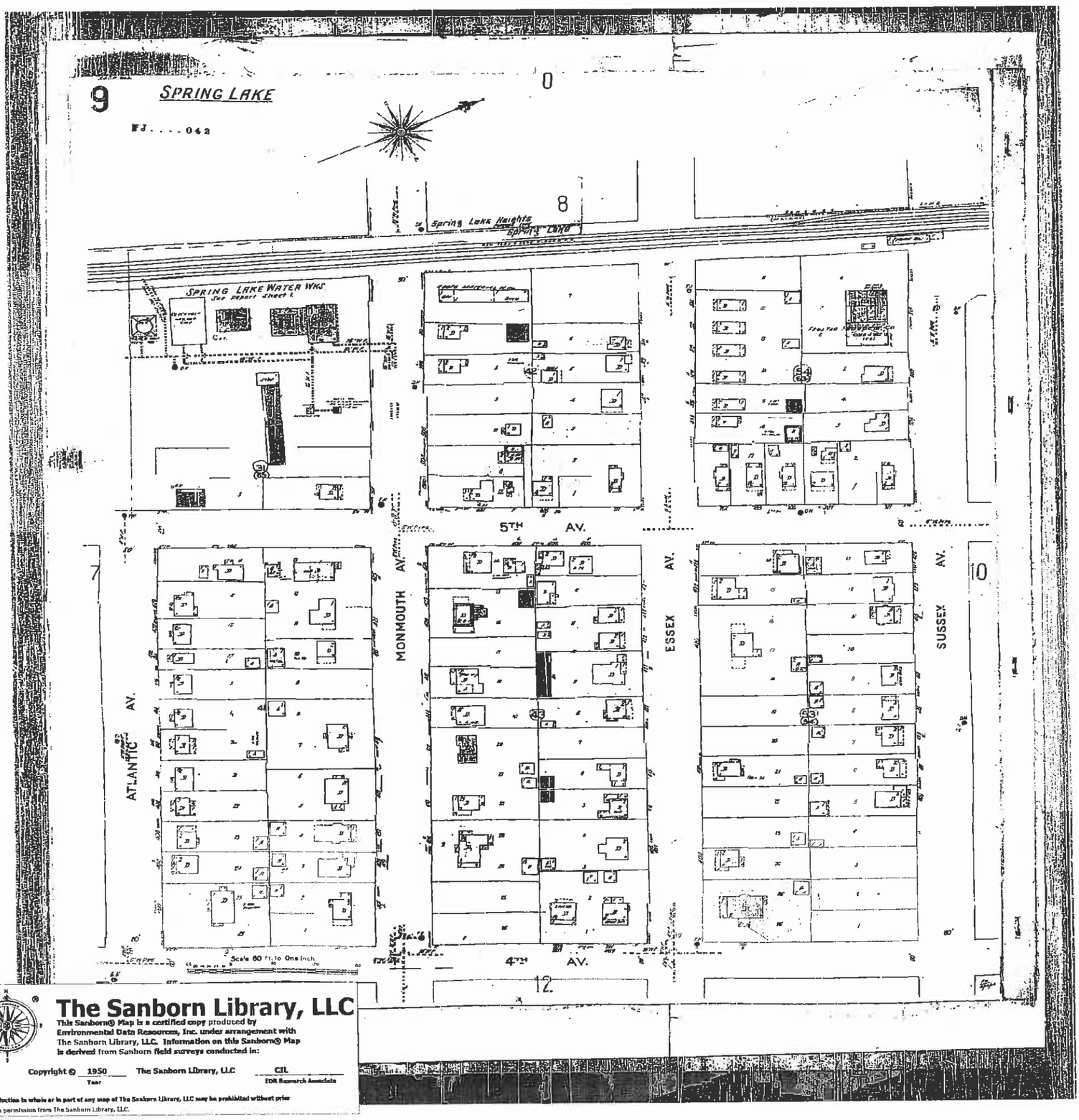

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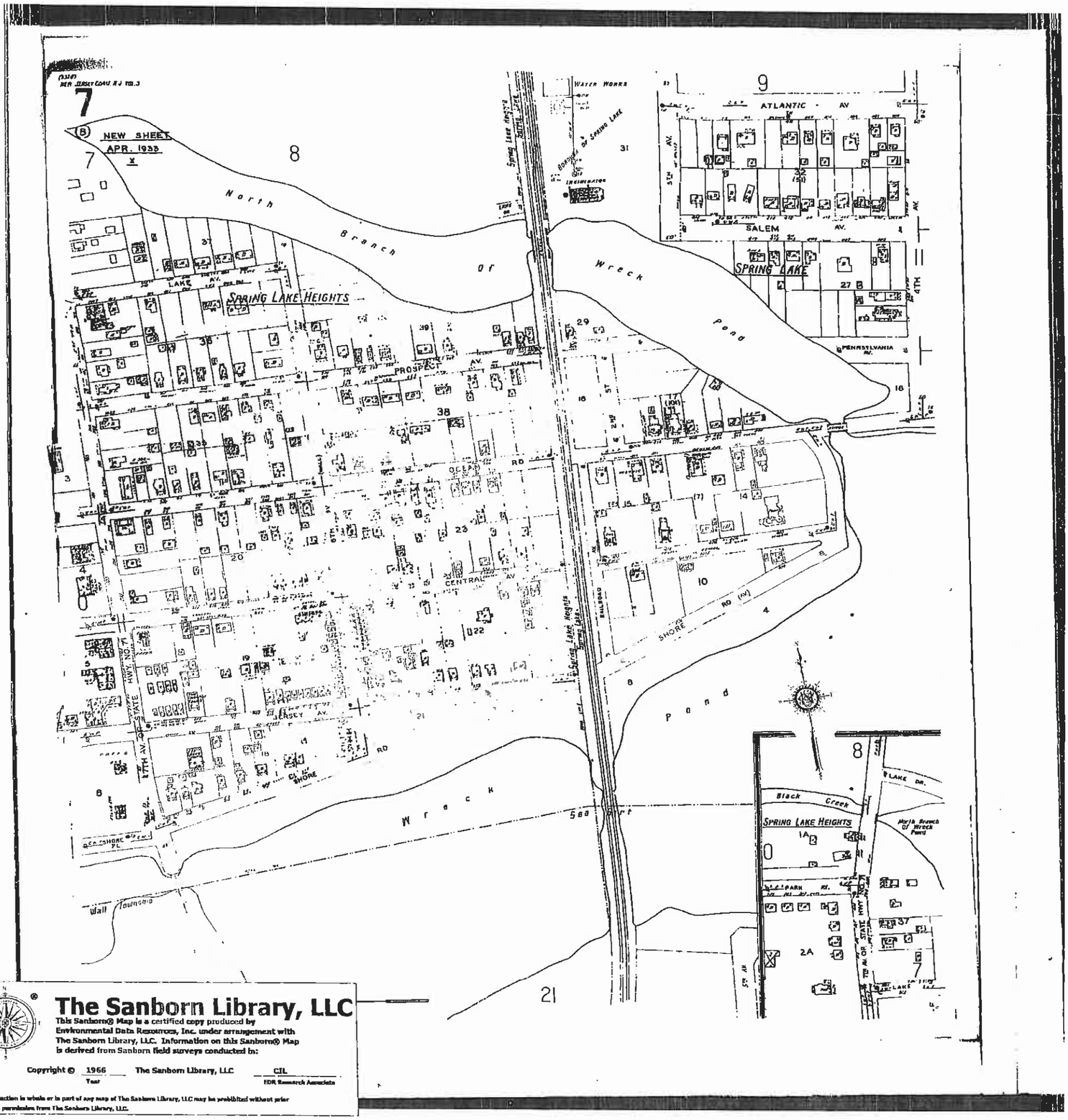

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The EDR Radius Map™ Report

Department of Public Works
Fifth Avenue/Monmouth Avenue
Springlake, NJ 07762

Inquiry Number: 0740421.3r

March 01, 2002

Environmental Data Resources, Inc.

***The* Source For Environmental Risk Management Data**

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FORM-DAY

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Detail Map	3
Map Findings Summary	4
Map Findings	5
Orphan Summary	28
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

FIFTH AVENUE/MONMOUTH AVENUE
SPRINGLAKE, NJ 07762

COORDINATES

Latitude (North):	40.146600 - 40° 8' 47.8"
Longitude (West):	74.035700 - 74° 2' 8.5"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	582138.9
UTM Y (Meters):	4444264.0
State Plane X (Feet):	2176395.8
State Plane Y (Feet):	478968.0

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2440074-B1 ASBURY PARK, NJ
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

Proposed **NPL**	Proposed National Priority List Sites
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRIS-TSD	Resource Conservation and Recovery Information System
RCRIS-SQG	Resource Conservation and Recovery Information System
ERNS	Emergency Response Notification System

STATE ASTM STANDARD

SWF/LF	Solid Waste Facility Directory

FEDERAL ASTM SUPPLEMENTAL

Delisted NPL	National Priority List Deletions

EXECUTIVE SUMMARY

FINDS..... Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

NJ MAJOR FACILITIES..... List of Major Facilities
NJ Spills..... Spills
NJ Release..... Hazardous Material Incident Database
NJ PF..... Publicly Funded Cleanups Site Status Report
CHROME..... Chromate Chemical Production Waste Sites
BROWNFIELDS..... Brownfields Database

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 01/29/2002 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WALDICK AEROSPACE DEVICES, INC	***2121 ROUTE 35***	***1/2 - 1 W***	***12***	***21***

EXECUTIVE SUMMARY

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SPRING LAKE HEIGHTS BOROUGH	***521 ATLANTIC AVE***	***0 - 1/8 WSW***	***A1***	***5***

STATE ASTM STANDARD

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection & Energy's Site Status Report.

A review of the SHWS list, as provided by EDR, has revealed that there are 7 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SPRING LAKE DEPARTMENT OF PUBL	MONMOUTH / 5TH AVES	0 - 1/8 ENE	3	8
SPRING LAKE HEIGHTS DEPT OF PU	555 ATLANTIC AVE	0 - 1/8 W	A4	8
ISOLANTITE MANUFACTURING CO	***337 WARREN AVE***	***1/4 - 1/2 NE***	***8***	***13***
EXXON SERVICE STATION SPRING L	RTE 71 / WARREN AVE	1/4 - 1/2 NNW	9	17
BROWNS AUTO SHOP	***HWY 71 LUDLOW AVE***	***1/2 - 1 N***	***10***	***17***
SPRING LAKE BD OF EDUCATION	***411 TUTTLE AVE***	***1/2 - 1 NNE***	***11***	***20***
WALDICK AEROSPACE DEVICES, INC	***2121 ROUTE 35***	***1/2 - 1 W***	***12***	***21***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection & Energy's Incident Report.

A review of the LUST list, as provided by EDR, and dated 01/04/2002 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
416 MERCER AVE PROJECT	416 MRECER AVE	1/4 - 1/2 NE	7	12

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection & Energy's UST Data.

A review of the UST list, as provided by EDR, and dated 09/15/1999 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
PUBLIC WORKS WATER TREATMENT P	FIFTH-ATLANTIC AVES	0 - 1/8 ESE	2	5
BOROUGH OF SPRING LAKE BORO YA	555 ATLANTIC AVE	0 - 1/8 W	5	9
SPRING LAKE PARK APARTMENTS	563 ESSEX AVE.	1/8 - 1/4 N	6	11

FEDERAL ASTM SUPPLEMENTAL

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WALDICK AEROSPACE DEVICES, INC	*2121 ROUTE 35*	*1/2 - 1 W*	*12*	*21*

RODS: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WALDICK AEROSPACE DEVICES, INC	*2121 ROUTE 35*	*1/2 - 1 W*	*12*	*21*

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
SUN CLEANERS	CERCLIS
SEA GIRT GULF	LUST
BROOKSIDE SCHOOL	LUST
SUNOCO SERVICE STATION #0007-7545	LUST
BROWN'S AUTO SHOP	LUST
MOBIL S/S #15-K5M	LUST
GETTY S/S #56113	LUST
SPRING LAKE HEIGHTS SCHOOL	LUST
EMPTY LOT/FORMER SERVICE STATION	LUST
JOB LOT	LUST
EXXON S/S #3-7044	LUST
SPRING LAKE HEIGHTS MUNICPAL GARAGE	LUST
SAINT CATHARINE'S SCHOOL	LUST
SMRA PITNEY AVE.	UST
12K5M	UST
WALL AMOCO	RCRIS-SQG, FINDS
GETTY PETROLEUM CORP 56113	RCRIS-SQG, FINDS
2004 ROUTE 71	BROWNFIELDS

OVERVIEW MAP - 0740421.3r - T & M Associates

★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

♟ Coal Gasification Sites

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

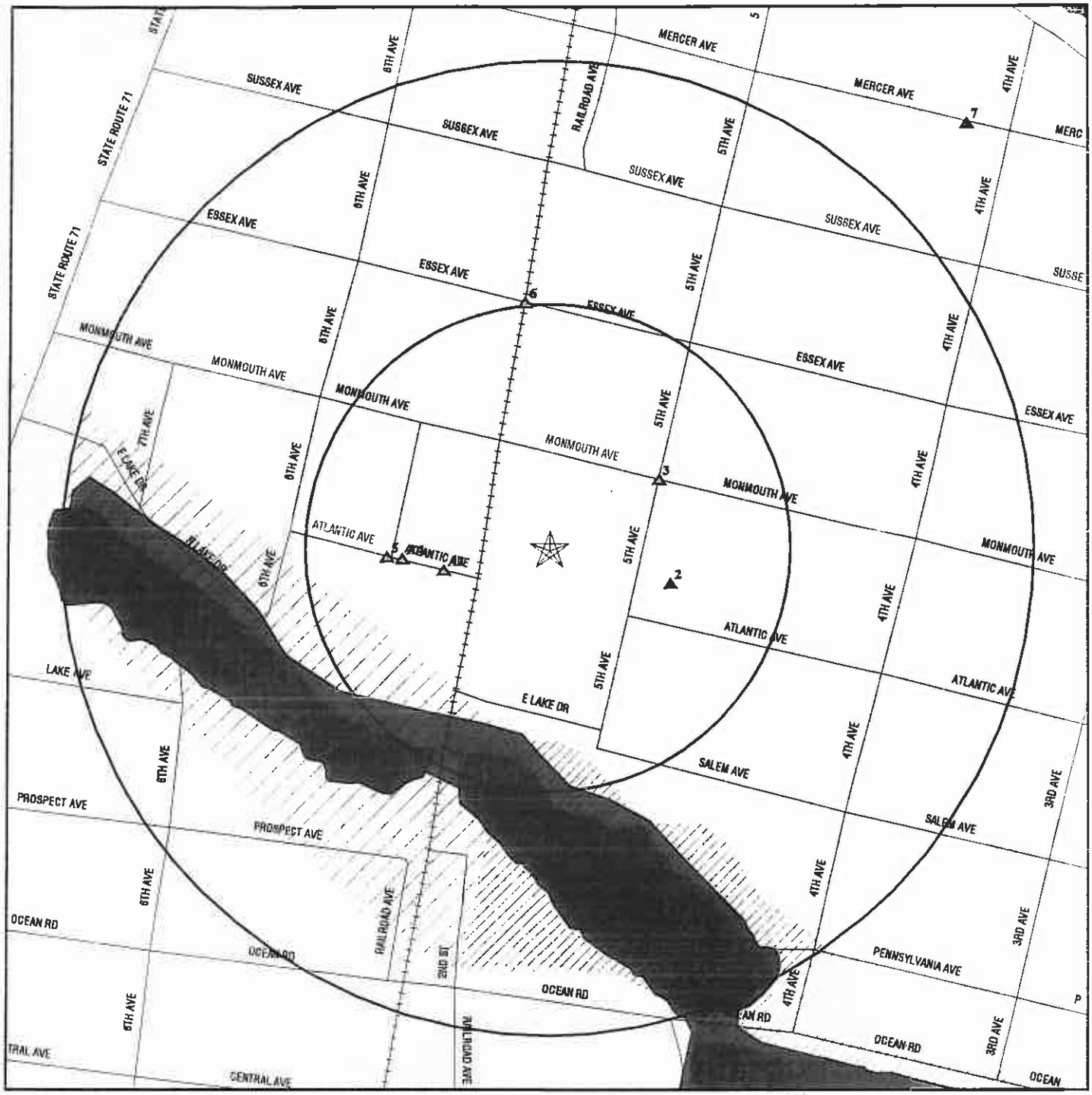
100-year flood zone

500-year flood zone

Wetlands

TARGET PROPERTY:	Department of Public Works	CUSTOMER:	T & M Associates
ADDRESS:	Fifth Avenue/Monmouth Avenue	CONTACT:	Timmie Perry
CITY/STATE/ZIP:	Springlake NJ 07762	INQUIRY #:	0740421.3r
LAT/LONG:	40.1466 / 74.0357	DATE:	March 01, 2002 10:07 am

DETAIL MAP - 0740421.3r - T & M Associates



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

Coal Gasification Sites

Sensitive Receptors

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

100-year flood zone

500-year flood zone

Wetlands

TARGET PROPERTY:	Department of Public Works	CUSTOMER:	T & M Associates
ADDRESS:	Fifth Avenue/Monmouth Avenue	CONTACT:	Timmie Perry
CITY/STATE/ZIP:	Springlake NJ 07762	INQUIRY #:	0740421.3r
LAT/LONG:	40.1466 / 74.0357	DATE:	March 01, 2002 10:07 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	0	0	0	1	NR	1
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	1	0	NR	NR	NR	1
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
State Haz. Waste		1.000	2	0	2	3	NR	7
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	1	NR	NR	1
UST		0.250	2	1	NR	NR	NR	3
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	1	NR	1
ROD		1.000	0	0	0	1	NR	1
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
NJ Major Facilities		0.500	0	0	0	NR	NR	0
NJ Spills		TP	NR	NR	NR	NR	NR	0
NJ Release		TP	NR	NR	NR	NR	NR	0
NJ PF		TP	NR	NR	NR	NR	NR	0
CHROME		TP	NR	NR	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY HISTORICAL DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1 **SPRING LAKE HEIGHTS BOROUGH** **FINDS** **1000256755**
WSW **521 ATLANTIC AVE** **RCRIS-LQG** **NJD981873342**
< 1/8 **SPRING LAKE, NJ 07762**
289
Higher **Site 1 of 2 in cluster A**

RCRIS:
Owner: SPRING LAKE HEIGHTS
(212) 555-1212

Contact: FRANK WALTON
(732) 449-5433

Record Date: 12/19/1986
Classification: Large Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

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2 **PUBLIC WORKS WATER TREATMENT PLA** **UST** **U000359779**
ESE **FIFTH-ATLANTIC AVES** **N/A**
< 1/8 **SPRING LAKE, NJ 07762**
346
Higher

PUBLIC WORKS WATER TREATMENT PLA (Continued) **U000359779**

UST:

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/74 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	4.00	Owner Tank ID:	E5
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH OF SPRING LAKE		
Owner Address:	FIFTH-WARREN AVES SPRING LAKE, NJ 07762		
Tank Capacity:	1000.00 Gallons		
Tank Contents:	A. LEADED GASOLINE		
Tank Construction:	B. CATHODICALLY PROTECTED STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	A. SINGLE WALL		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. Removed		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank In Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/72 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	5.00	Owner Tank ID:	E6
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH OF SPRING LAKE		
Owner Address:	FIFTH-WARREN AVES SPRING LAKE, NJ 07762		
Tank Capacity:	1000.00 Gallons		
Tank Contents:	F. WASTE OIL		
Tank Construction:	B. CATHODICALLY PROTECTED STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	A. SINGLE WALL		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. Removed		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

PUBLIC WORKS WATER TREATMENT PLA (Continued) **U000359779**

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/73 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	3.00	Owner Tank ID:	E4
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH OF SPRING LAKE		
Owner Address:	FIFTH-WARREN AVES SPRING LAKE, NJ 07762		
Tank Capacity:	1000.00 Gallons		
Tank Contents:	E. MEDIUM DIESEL FUEL (NO. 2-D)		
Tank Construction:	B. CATHODICALLY PROTECTED STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	A. SINGLE WALL		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. Removed		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/44 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	2.00	Owner Tank ID:	E2
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH OF SPRING LAKE		
Owner Address:	FIFTH-WARREN AVES SPRING LAKE, NJ 07762		
Tank Capacity:	1000.00 Gallons		
Tank Contents:	B. UNLEADED GASOLINE		
Tank Construction:	B. CATHODICALLY PROTECTED STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	A. SINGLE WALL		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. Removed		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

PUBLIC WORKS WATER TREATMENT PLA (Continued) **U000359779**

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/70 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	1.00	Owner Tank ID:	E1

Operator:	Not reported
Operator Address:	Not reported
Owner:	BOROUGH OF SPRING LAKE
Owner Address:	FIFTH-WARREN AVES
	SPRING LAKE, NJ 07762
Tank Capacity:	2000.00 Gallons
Tank Contents:	E. MEDIUM DIESEL FUEL (NO. 2-D)
Tank Construction:	B. CATHODICALLY PROTECTED STEEL
Tank Structure:	A. SINGLE WALL
Pipe Contents:	A. BARE STEEL
Pipe Structure:	A. SINGLE WALL
Over Fill Products:	No
Spill Containment Around Fill Pipe:	No
Tank Status:	G. Removed
Date Tank Removed:	Not reported
Date Tank Abandoned in Place:	Not reported
Date Tank Taken Out of Service:	Not reported
Date of Tank Sale or Transfer:	Not reported
Tank Closure Number:	Not reported
Tank ISRA Number:	Not reported
Tank in Wellhead Protection Area:	Not reported
Is Facility in Compliance Rules:	No

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3 **SPRING LAKE DEPARTMENT OF PUBLIC WORKS** **SHWS** **S105008023**
ENE **MONMOUTH / 5TH AVES** **N/A**
< 1/8 **SPRING LAKE BOROUGH, NJ**
354
Higher

SHWS:

Facility ID:	NJL800449597	Case ID:	97365
Contact:	BUST	Sub Section Code:	A
Case Status:	ACTIVE		
Status Date:	12/24/1998		
Site Municipality:	1348		
Sub Section Label:	SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION		
Remedial Action Type:	Not reported		
CEA/DER:	Not reported		

A4 **SPRING LAKE HEIGHTS DEPT OF PUBLIC WORKS** **SHWS** **S102875966**
West **555 ATLANTIC AVE** **N/A**
< 1/8 **SPRING LAKE HEIGHTS BOROUGH, NJ**
395
Higher **Site 2 of 2 in cluster A**

SHWS:

Facility ID:	NJD981873342	Case ID:	44435
Contact:	BUST	Sub Section Code:	A
Case Status:	ACTIVE		
Status Date:	09/29/1986		
Site Municipality:	1349		
Sub Section Label:	SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION		
Remedial Action Type:	Not reported		
CEA/DER:	Not reported		

5
West
< 1/8
437
Higher

BOROUGH OF SPRING LAKE BORO YARD
555 ATLANTIC AVE
SPRING LAKE HGTS, NJ 07762

UST **U000355711**
N/A

UST:

Facility ID:	0044435	Facility Status:	Inactive
Install Date:	1/1/52 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	4.00	Owner Tank ID:	E4

Operator:	Not reported
Operator Address:	Not reported
Owner:	BOROUGH SPRING LAKE HGTS
Owner Address:	555 BRIGHTON AVE SPRING LAKE HGTS, NJ 07762
Tank Capacity:	0.00 Gallons
Tank Contents:	B. UNLEADED GASOLINE
Tank Construction:	H. OTHER: GALV A. BARE STEEL
Tank Structure:	A. SINGLE WALL
Pipe Contents:	H. OTHER
Pipe Structure:	Not reported
Over Fill Products:	No
Spill Containment Around Fill Pipe:	No
Tank Status:	G. REMOVED
Date Tank Removed:	Not reported
Date Tank Abandoned In Place:	Not reported
Date Tank Taken Out of Service:	Not reported
Date of Tank Sale or Transfer:	Not reported
Tank Closure Number:	Not reported
Tank ISRA Number:	Not reported
Tank in Wellhead Protection Area:	Not reported
Is Facility in Compliance Rules:	No

BOROUGH OF SPRING LAKE BORO YARD (Continued) **U000355711**

Facility ID:	0044435	Facility Status:	Inactive
Install Date:	1/1/72 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	3.00	Owner Tank ID:	E3
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH SPRING LAKE HGTS		
Owner Address:	555 BRIGHTON AVE SPRING LAKE HGTS, NJ 07762		
Tank Capacity:	0.00 Gallons		
Tank Contents:	B. UNLEADED GASOLINE		
Tank Construction:	H. OTHER: GALV A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	H. OTHER		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank In Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0044435	Facility Status:	Inactive
Install Date:	1/1/72 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	2.00	Owner Tank ID:	E2
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH SPRING LAKE HGTS		
Owner Address:	555 BRIGHTON AVE SPRING LAKE HGTS, NJ 07762		
Tank Capacity:	0.00 Gallons		
Tank Contents:	A. LEADED GASOLINE		
Tank Construction:	H. OTHER: GALV A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	H. OTHER		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

BOROUGH OF SPRING LAKE BORO YARD (Continued) **U000355711**

Facility ID:	0044435	Facility Status:	Inactive
Install Date:	1/1/75 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	1.00	Owner Tank ID:	E1

Operator:	Not reported
Operator Address:	Not reported
Owner:	BOROUGH SPRING LAKE HGTS
Owner Address:	555 BRIGHTON AVE SPRING LAKE HGTS, NJ 07762
Tank Capacity:	0.00 Gallons
Tank Contents:	D. LIGHT DIESEL FUEL (NO. 1-D)
Tank Construction:	H. OTHER: GALV A. BARE STEEL
Tank Structure:	A. SINGLE WALL
Pipe Contents:	H. OTHER
Pipe Structure:	Not reported
Over Fill Products:	No
Spill Containment Around Fill Pipe:	No
Tank Status:	G. REMOVED
Date Tank Removed:	Not reported
Date Tank Abandoned in Place:	Not reported
Date Tank Taken Out of Service:	Not reported
Date of Tank Sale or Transfer:	Not reported
Tank Closure Number:	Not reported
Tank ISRA Number:	Not reported
Tank in Wellhead Protection Area:	Not reported
Is Facility in Compliance Rules:	No

6
North
1/8-1/4
669
Higher

SPRING LAKE PARK APARTMENTS
563 ESSEX AVE.
SPRING LAKE HEIGHTS, NJ 07062

UST **U000368808**
N/A

SPRING LAKE PARK APARTMENTS (Continued) **U000368808**

UST:

Facility ID:	0272126	Facility Status:	Inactive
Install Date:	1/1/67 0:00:00	Facility Type:	F. RESIDENCE
Unique Tank ID:	2.00	Owner Tank ID:	0002
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	DAVID & MARIO PERROTTI		
Owner Address:	23 SOUTH UNION AVE. CRANFORD, NJ 07016		
Tank Capacity:	3000.00 Gallons		
Tank Contents:	H. HOME HEATING OIL (NO. 2)		
Tank Construction:	H. OTHER		
Tank Structure:	C. OTHER		
Pipe Contents:	H. OTHER		
Pipe Structure:	C. OTHER		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0272126	Facility Status:	Inactive
Install Date:	1/1/67 0:00:00	Facility Type:	F. RESIDENCE
Unique Tank ID:	1.00	Owner Tank ID:	0001
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	DAVID & MARIO PERROTTI		
Owner Address:	23 SOUTH UNION AVE. CRANFORD, NJ 07016		
Tank Capacity:	4000.00 Gallons		
Tank Contents:	H. HOME HEATING OIL (NO. 2)		
Tank Construction:	H. OTHER		
Tank Structure:	C. OTHER		
Pipe Contents:	H. OTHER		
Pipe Structure:	C. OTHER		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

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7 **416 MERCER AVE PROJECT** **LUST S104385149**
NE **416 MRECER AVE** **N/A**
1/4-1/2 **SPRING LAKE, NJ**
1616
Higher

416 MERCER AVE PROJECT (Continued) **S104385149**

LUST:

Case ID:	Not reported
Facility Status:	Case Awaiting Assignment
Facility Phone:	Not reported
Case Closed:	Not reported
UST ID:	0339050
Lead Program Assigned to Case:	Bureau of Field Operations - Initial Notice Section
TMS Number:	N00-0177
Remedial Level:	Not reported
Case Manager:	Not reported

8 NE 1/4-1/2 1921 Higher **ISOLANTITE MANUFACTURING CO** **337 WARREN AVE** **STIRLING, NJ 07980** **FINDS 1001079406** **RCRIS-LQG NJR000008110** **NJ Spills** **NJ Release** **SHWS**

RCRIS:

Owner: GEORGE LUMPE (908) 647-3333

Contact: GEORGE LUMPE (908) 647-3333

Record Date: 11/29/1995
Classification: Large Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

NY MANIFEST
Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

SHWS:

Facility ID:	NJL500016456	Case ID:	0
Contact:	BFO-IN	Sub Section Code:	C
Case Status:	NFA for an entire Site		
Status Date:	07/17/2000		
Site Municipality:	1430		
Sub Section Label:	SITES WITH CLOSED CASE(S) WITH RESTRICTIONS		
Remedial Action Type:	Restricted		
CEA/DER:	Not reported		

NJ Release:

Facility ID:	14266	Case Number:	95-9-6-1733-24
Date Received:	09/06/1995	Operator:	JIMS
Location:	Other	Nature of Incident:	Facility
Facility Phone:	Not reported	Facility Type:	Commercial
Date of Incident:	09/06/1995	Time of Incident:	13:00
Substance(s):	OIL HEATING #2		
Substance Type:	Liquid	Substance Identity:	Known
Unit:	Not reported		
Official:			
Notification:	Not reported		
Name:	Not reported		
Phone:	Not reported		

ISOLANTITE MANUFACTURING CO (Continued) **1001079406**

Date:	Not reported		
Time:	Not reported		
Description:	Not reported		
Notify:	Not reported		
Method:	Not reported		
Contained:	Not reported		
A310 Letter:	Yes	TCPA Chemical:	No
Hazrds Material:	Yes	CAS Number:	Not reported
COMU:	1430	Ref. Code:	101
Amnt Released:	UNKNOWN		
Release Type:	Terminated	Contained:	Yes
Injuries:	No	Facility Evacuation:	No
Public Exposure:	No	Public Evacuation:	No
Police at Scene:	No	Firemen at Scene:	No
Contamination of:	Land	Receiving Water:	Not reported
Caller:			
Name:	PETER KUYK	Title:	AWK ASSOC
Address:	BRIDGEWATER, NJ		
Telephone:	908-356-6688		
Responsible Party:			
Name:	Known	Company:	ISOLANTITE
Contact:	Not reported	Title:	Not reported
Address:	337 WARREN AVE STIRLING, NJ		
County:	MORRIS	Telephone:	Not reported
NJ Spill:			
Name:	Not reported	Title:	Not reported
Telephone:	Not reported		
Date:	Not reported	Time:	Not reported
Local Municipality:			
Name:	PASSAIC TWP	Municipality Title:	DISP MILLER
Telephone:	908-647-1800		
Date:	09/06/1995	Time:	17:39
Other:			
Name:	Not reported	Title:	Not reported
Telephone:	Not reported		
Date:	Not reported	Time:	17:39
Incident:			
Name:	Not reported	Referred To:	DRPSR
Region:	BFO-CAS	Telephone:	Faxed,Mailed
Date:	09/06/1995	Incident Time:	Not reported
ITM:	B		

Incident Description:	U.S.T.,Soil Contamination
Incident Type:	Not reported
Wind Direction/Speed:	Not reported
Office Notified:	Not reported
Off Notified Phone:	Not reported
Date Office Notified:	Not reported
Assistance Requested:	No
Date A310 Letter Printed:	09/06/1995
Date Local Authority Was Notified:	Not reported
Date Update:	Not reported
Date Report Faxed to Local Authority:	09/06/1995
Local Authority Notification Date 1:	Not reported
Local Authority Notification Date 2:	Not reported
Local Authority Notification Date 3:	Not reported
Status at Spill:	1-1000 UST REMOVED WITH CONTAMINATED SOIL TODAY THIS IS AN ISRA CASE

ISOLANTITE MANUFACTURING CO (Continued) **1001079406**

Comments: CHART H

NJ Spill:

Facility ID:	14266	Case Number:	93-8-23-1019-04
Date Received:	08/23/1993	Operator:	JOES
Location:	Other	Nature of Incident:	Citizen
Facility Phone:	Not reported	Facility Type:	Residential
Date of Incident:	06/07/1993	Time of Incident:	UNK
Substance(s):	OIL HEATING #2		
Substance Type:	Liquid	Substance Identity:	Known
A310 Letter:	Yes	TCPA Chemical:	No
Hazrds Material:	Yes	CAS Number:	Not reported
COMU:	1102	Ref. Code:	101
Amnt Released:	UNK	Release VE:	Not reported
Release Type:	Continuous	Contained:	No
Injuries:	No	Facility Evacuation:	No
Public Exposure:	No	Public Evacuation:	No
Police at Scene:	No	Firemen at Scene:	No
Contamination of:	Land,Water	Receiving Water:	WELL WATER
Caller:			
Name:	MILTON R. ANDERSON	Title:	CIT
Address:	31 SUSAN AVE BEACH HAVEN, NJ		
Phone:	609-492-7249		
Responsible Party:			
Name:	UnKnown	Company:	Not reported
Contact:	Not reported	Title:	Not reported
Address:	Not reported		
County:	Not reported	Phone:	Not reported
NJ Spill:			
Name:	Not reported	Title:	Not reported
Phone:	Not reported		
Date:	Not reported	Time:	Not reported
Local Municipality:			
Name:	EWING TWP	Title:	DISP 10
Phone:	609-882-1313		
Date:	08/23/1993	Time:	10:25
Other:			
Name:	Not reported	Title:	Not reported
Phone:	Not reported		
Date:	Not reported	Time:	Not reported
Incident:			
Name:	Not reported	Referred To:	DPRSR
Region:	BFO-SA	Telephone:	Faxed,Mail
Date:	08/23/1993	Incident Time:	Not reported
ITM:	B		

Incident Description:	L.U.S.T.
Wind Direction/Speed:	Not reported
Official Notofication Info:	Not reported
Official Notify:	Not reported
Method:	Not reported
Notify Type:	Not reported
NJ Spill Type:	Not reported
Unit:	Not reported
Contained:	Not reported
Assistance Requested:	Yes
Date A310 Letter Printed:	Not reported
Date Local Authority Was Notified:	Not reported

ISOLANTITE MANUFACTURING CO (Continued) **1001079406**

Date Update: Not reported
Date Report Faxed to Local Authority: Not reported
Local Authority Notification Date 1: Not reported
Local Authority Notification Date 2: Not reported
Local Authority Notification Date 3: Not reported
Status at Spill: WELL IS CONTAMINATED WITH HEATING OIL FROM UST ON NEARBY PROPERTY...CALLER RENTS OUT THIS PROPERTY
Comments: Not reported

Facility ID:	14266	Case Number:	93-8-23-1019-04
Date Received:	08/23/1993	Operator:	JOES
Location:	Other	Nature of Incident:	Citizen
Facility Phone:	Not reported	Facility Type:	Residential
Date of Incident:	06/07/1993	Time of Incident:	UNK
Substance(s):	OIL HEATING #2		
Substance Type:	Liquid	Substance Identity:	Known
A310 Letter:	Yes	TCPA Chemical:	No
Hazrds Material:	Yes	CAS Number:	Not reported
COMU:	1102	Ref. Code:	101
Amnt Released:	UNK	Release VE:	Not reported
Release Type:	Continuous	Contained:	No
Injuries:	No	Facility Evacuation:	No
Public Exposure:	No	Public Evacuation:	No
Police at Scene:	No	Firemen at Scene:	No
Contamination of:	Land,Water	Receiving Water:	WELL WATER
Caller:			
Name:	MILTON R. ANDERSON	Title:	CIT
Address:	31 SUSAN AVE BEACH HAVEN, NJ		
Phone:	609-492-7249		
Responsible Party:			
Name:	UnKnown	Company:	Not reported
Contact:	Not reported	Title:	Not reported
Address:	Not reported		
County:	Not reported	Phone:	Not reported
NJ Spill:			
Name:	Not reported	Title:	Not reported
Phone:	Not reported		
Date:	Not reported	Time:	Not reported
Local Municipality:			
Name:	EWING TWP	Title:	DISP 10
Phone:	609-882-1313		
Date:	08/23/1993	Time:	10:25
Other:			
Name:	Not reported	Title:	Not reported
Phone:	Not reported		
Date:	Not reported	Time:	Not reported
Incident:			
Name:	Not reported	Referred To:	DPRSR
Region:	BFO-SA	Telephone:	Faxed,Mail
Date:	08/23/1993	Incident Time:	Not reported
ITM:	B		

Incident Descnption: L.U.S.T.
Wind Direction/Speed: Not reported
Official Notofication Info: Not reported
Official Notify: Not reported
Method: Not reported

ISOLANTITE MANUFACTURING CO (Continued) **1001079406**

Notify Type: Not reported
NJ Spill Type: Not reported
Unit: Not reported
Contained: Not reported
Assistance Requested: Yes
Date A310 Letter Printed: Not reported
Date Local Authority Was Notified: Not reported
Date Update: Not reported
Date Report Faxed to Local Authority: Not reported
Local Authority Notification Date 1: Not reported
Local Authority Notification Date 2: Not reported
Local Authority Notification Date 3: Not reported
Status at Spill: WELL IS CONTAMINATED WITH HEATING OIL FROM UST ON NEARBY PROPERTY...CALLER RENTS OUT THIS PROPERTY
Comments: Not reported

9
NNW
1/4-1/2
2189
Higher

EXXON SERVICE STATION SPRING LAKE BORO **SHWS** **S103031620**
RTE 71 / WARREN AVE **N/A**
SPRING LAKE BOROUGH, NJ

SHWS:
Facility ID: NJD986610558 Case ID: 83766
Contact: BUST Sub Section Code: A
Case Status: ACTIVE
Status Date: 05/31/1995
Site Municipality: 1348
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

10
North
1/2-1
4259
Higher

BROWNS AUTO SHOP **RCRIS-SQG** **1000543103**
HWY 71 LUDLOW AVE **FINDS** **NJD986616167**
SPRING LAKE, NJ 07762 **UST**
SHWS

RCRIS:
Owner: GEORGE SCIFO
(732) 449-8777

Contact: GEORGE SCIFO
(732) 449-8777

Record Date: 09/24/1991
Classification: Small Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

SHWS:
Facility ID: NJD986616167 Case ID: 151797
Contact: BUST Sub Section Code: A
Case Status: ACTIVE

BROWNS AUTO SHOP (Continued) **1000543103**

Status Date: 04/11/1989
Site Municipality: 1349
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

UST:
Facility ID: 0151797
Install Date: 1/1/87 0:00:00
Unique Tank ID: 4.00
Facility Status: Inactive
Facility Type: B. COMMERCIAL/INDUSTRIAL
Owner Tank ID: E4
Operator: Not reported
Operator Address: Not reported
Owner: LEON W FRANCIS JR
Owner Address: 2112 4TH AVE
SPRING LAKE, NJ 07762
Tank Capacity: 2000.00 Gallons
Tank Contents: A. LEADED GASOLINE
Tank Construction: A. BARE STEEL
Tank Structure: A. SINGLE WALL
Pipe Contents: A. BARE STEEL
Pipe Structure: Not reported
Over Fill Products: No
Spill Containment Around Fill Pipe: No
Tank Status: G. REMOVED 4/11/89
Date Tank Removed: Not reported
Date Tank Abandoned in Place: Not reported
Date Tank Taken Out of Service: Not reported
Date of Tank Sale or Transfer: Not reported
Tank Closure Number: Not reported
Tank ISRA Number: Not reported
Tank in Wellhead Protection Area: Not reported
Is Facility in Compliance Rules: No

BROWNS AUTO SHOP (Continued) **1000543103**

Facility ID:	0151797	Facility Status:	Inactive
Install Date:	1/1/87 0:00:00	Facility Type:	B. COMMERCIAL/INDUSTRIAL
Unique Tank ID:	5.00	Owner Tank ID:	E5
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	LEON W FRANCIS JR		
Owner Address:	2112 4TH AVE SPRING LAKE, NJ 07762		
Tank Capacity:	2000.00 Gallons		
Tank Contents:	A. LEADED GASOLINE		
Tank Construction:	A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED 4/11/89		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0151797	Facility Status:	Inactive
Install Date:	1/1/87 0:00:00	Facility Type:	B. COMMERCIAL/INDUSTRIAL
Unique Tank ID:	3.00	Owner Tank ID:	E3
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	LEON W FRANCIS JR		
Owner Address:	2112 4TH AVE SPRING LAKE, NJ 07762		
Tank Capacity:	2000.00 Gallons		
Tank Contents:	A. LEADED GASOLINE		
Tank Construction:	A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED 4/11/89		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

BROWNS AUTO SHOP (Continued) **1000543103**

Facility ID:	0151797	Facility Status:	Inactive
Install Date:	1/1/87 0:00:00	Facility Type:	B. COMMERCIAL/INDUSTRIAL
Unique Tank ID:	2.00	Owner Tank ID:	E2
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	LEON W FRANCIS JR		
Owner Address:	2112 4TH AVE SPRING LAKE, NJ 07762		
Tank Capacity:	3000.00 Gallons		
Tank Contents:	B. UNLEADED GASOLINE		
Tank Construction:	A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED 4/11/89		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank In Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0151797	Facility Status:	Inactive
Install Date:	1/1/54 0:00:00	Facility Type:	B. COMMERCIAL/INDUSTRIAL
Unique Tank ID:	1.00	Owner Tank ID:	E1
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	LEON W FRANCIS JR		
Owner Address:	2112 4TH AVE SPRING LAKE, NJ 07762		
Tank Capacity:	2000.00 Gallons		
Tank Contents:	B. UNLEADED GASOLINE		
Tank Construction:	A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED 4/11/89		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

11 **SPRING LAKE BD OF EDUCATION** **UST U000360880**
NNE **411 TUTTLE AVE** **SHWS N/A**
1/2-1 **SPRING LAKE, NJ 07762**
4374
Higher

SPRING LAKE BD OF EDUCATION (Continued) **U000360880**

SHWS:
Facility ID: NJL600070551 Case ID: 112420
Contact: BFMCR Sub Section Code: A
Case Status: ACTIVE
Status Date: 08/30/1990
Site Municipality: 1348
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

UST:
Facility ID: 0112420 Facility Status: Inactive
Install Date: 1/1/72 0:00:00 Facility Type: B. COMMERCIAL/INDUSTRIAL
Unique Tank ID: 1.00 Owner Tank ID: A1
Operator: Not reported
Operator Address: Not reported
Owner: SPRING LAKE BD OF EDUCATION
Owner Address: 411 TUTTLE AVE
SPRING LAKE, NJ 07762
Tank Capacity: 10000.00 Gallons
Tank Contents: H. HOME HEATING OIL (NO. 2)
Tank Construction: A. BARE STEEL B. CATHODICALLY PROTECTED STEEL
Tank Structure: A. SINGLE WALL
Pipe Contents: A. BARE STEEL
Pipe Structure: A. SINGLE WALL
Over Fill Products: Yes
Spill Containment Around Fill Pipe: No
Tank Status: G. REMOVED 8/9/90
Date Tank Removed: Not reported
Date Tank Abandoned in Place: Not reported
Date Tank Taken Out of Service: Not reported
Date of Tank Sale or Transfer: Not reported
Tank Closure Number: Not reported
Tank ISRA Number: Not reported
Tank in Wellhead Protection Area: Not reported
Is Facility in Compliance Rules: No

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12 West 1/2-1 5098 Higher

WALDICK AEROSPACE DEVICES, INC.
2121 ROUTE 35
WALL TOWNSHIP, NJ 07719

CERCLIS 1000189144
FINDS NJD980651269
NPL
RCRIS-LQG
CONSENT
ROD
SHWS

CERCLIS Classification Data:
Site Incident Category: Not reported Federal Facility: Not a Federal Facility
Non NPL Status: Not reported
Ownership Status: Private NPL Status: Currently on the Final NPL
Contact: CHARLES FITZSIMMONS Contact Tel: (908) 321-6608
Contact Title: Not reported
Site Description: * SEE INCIDENT DESCRIPTION
CERCLIS Assessment History:
Assessment: DISCOVERY Completed: 01/01/1984
Assessment: PRELIMINARY ASSESSMENT Completed: 01/01/1984
Assessment: SITE INSPECTION Completed: 10/01/1984
Assessment: PROPOSAL TO NPL Completed: 10/15/1984
Assessment: NPL RP SEARCH Completed: 02/15/1985

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

Assessment:	FORWARD PLANNING	Completed:	05/31/1985
Assessment:	COMMUNITY INVOLVEMENT	Completed:	10/18/1985
Assessment:	RI/FS WORKPLAN APPROVAL BY HQ	Completed:	01/16/1986
Assessment:	SECTION 107 LITIGATION	Completed:	02/20/1986
Assessment:	CLAIM IN BANKRUPTCY PROCEEDING	Completed:	04/07/1986
Assessment:	PREPARATION OF COST DOCM PKGE	Completed:	06/05/1986
Assessment:	FINAL LISTING ON NPL	Completed:	06/10/1986
Assessment:	REMOVAL	Completed:	08/02/1986
Assessment:	COMBINED RI/FS	Completed:	09/29/1987
Assessment:	RECORD OF DECISION	Completed:	09/29/1987
Assessment:	TECHNICAL ASSISTANCE	Completed:	09/29/1987
Assessment:	RD/RA NEGOTIATIONS	Completed:	03/19/1988
Assessment:	HUMAN HEALTH RISK ASSESSMENT	Completed:	04/15/1990
Assessment:	ECOLOGICAL RISK ASSESSMENT	Completed:	04/15/1990
Assessment:	REMOVAL ASSESSMENT	Completed:	09/07/1990
Assessment:	COMBINED RI/FS	Completed:	03/29/1991
Assessment:	RECORD OF DECISION	Completed:	03/29/1991
Assessment:	RD/RA NEGOTIATIONS	Completed:	06/28/1991
Assessment:	REMEDIAL DESIGN	Completed:	11/15/1991
Assessment:	REMOVAL ASSESSMENT	Completed:	02/09/1993
Assessment:	Lodged By DOJ	Completed:	10/13/1993
Assessment:	CONSENT DECREE	Completed:	11/15/1993
Assessment:	SECTION 107 LITIGATION	Completed:	11/15/1993
Assessment:	REMEDIAL ACTION	Completed:	08/30/1995
Assessment:	FIVE YEAR REMEDY ASSESSMENT	Completed:	02/23/2000

CERCLIS Site Status:
Not reported

CERCLIS Alias Name(s):
WALDICK AEROSPACE DEVICES INC
WALDICK AEROSPACE DEVICES, INC
WALDICK AEROSPACE DEVICES, INC.
WALDICK AEROSPACE DEVICES, INC.

NPL:

EPA ID:	NJD054981337
Region:	02
Federal:	General
Final Date:	06/10/1986

NPL Contaminant:

NPL Status:	Final
Substance Id:	A038
Case Num:	7440-02-0
Substance :	NICKEL AND COMPOUNDS, NOS (NI)
Pathway :	NOT INDICATED
GW Scoring :	Not reported
SW Scoring :	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported

NPL Status:	Final
Substance Id:	C156
Case Num:	7429-90-5
Substance :	ALUMINUM AND COMPOUNDS, NOS (AL)
Pathway :	NOT INDICATED
GW Scoring :	Not reported
SW Scoring :	Not reported

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: C196
Case Num: 7647-01-0
Substance : HYDROCHLORIC ACID
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: C320
Case Num: 18540-29-9
Substance : CHROMIUM, HEXAVALENT
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: D004
Case Num: 7440-38-2
Substance : ARSENIC
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: D008
Case Num: 7439-92-1
Substance : LEAD (PB)
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: P030
Case Num: 420-04-2
Substance : CYANIDES (SOLUBLE SALTS), NOS
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U037
Case Num: 108-90-7
Substance : CHLOROBENZENE
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U079
Case Num: 156-60-5
Substance : TRANS-DICHLOROETHYLENE, 1,2-
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U220
Case Num: 108-88-3
Substance : TOLUENE
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U228
Case Num: 79-01-6
Substance : TRICHLOROETHYLENE (TCE), 1,1,2-
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: W002
Case Num: Not reported
Substance : VOLATILE ORGANICS, NOS
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	A020
Case Num:	7440-47-3
Substance :	CHROMIUM AND COMPOUNDS, NOS (CR)
Pathway :	GW
GW Scoring :	Observed Release
SW Scoring :	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	D006
Case Num:	7440-43-9
Substance :	CADMIUM (CD)
Pathway :	GW
GW Scoring :	Observed Release & Toxicity
SW Scoring :	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U210
Case Num:	79-34-5
Substance :	TETRACHLOROETHENE
Pathway :	GW
GW Scoring :	Observed Release
SW Scoring :	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	D006
Case Num:	7440-43-9
Substance :	CADMIUM (CD)
Pathway :	SW
GW Scoring :	Not reported
SW Scoring :	Toxicity
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported

NPL Site:

CERCLIS Id:	NJD054981337
Site City:	Wall Township
Site State:	NJ
NPL Status:	Final
Status Date:	06/10/86
Federal Site:	Not reported

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

HRS Score: 44.86
GW Score: 76.92
SW Score: 10.26
Air Score: 0.00
Soil Score: 0.00
DC Score: 0.00
FE Score: 0.00

NPL Char:
NPL Status: Final
Category Description: DEPTH TO AQUIFER
Category Value: 10

NPL Status: Final
Category Description: DISTANCE TO THE NEAREST POPULATION
Category Value: 10

NPL Status: Final
Category Description: OBSERVED RELEASE-Ground Water
Category Value: Not reported

NPL Status: Final
Category Description: PHYSICAL STATE-Liquid
Category Value: Not reported

NPL Status: Final
Category Description: SITE ACTIVITY WASTE SOURCE-Manufacturing
Category Value: Not reported

NPL Status: Final
Category Description: SITE ACTIVITY WASTE SOURCE-Manufacturing Electroplating
Category Value: Not reported

NPL Status: Final
Category Description: SURFACE WATER ADJACENT TO SITE-Stream
Category Value: Not reported

NPL Status: Final
Category Description: SURFACE WATER ADJACENT TO SITE-Wetland
Category Value: Not reported

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

CONSENT:
Full-text of a consent decree on this site issued by a United States District Court is available from EDR.

RCRIS:
Owner: WALDICK AEROSPACE
(732) 449-1800

Contact: PAUL LESSARD
(732) 449-1800

Record Date: 11/05/1982
Classification: Large Quantity Generator

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Comperhensive Environmental Response, Compensation and Liability Information System (CERCLIS)
Enforcement Docket System (DOCKET)
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

SHWS:
Facility ID: NJD054981337 Case ID: 0
Contact: BSM Sub Section Code: A
Case Status: ACTIVE
Status Date: 05/15/1985
Site Municipality: 1352
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
SEA GIRT	S104386214	SEA GIRT GULF	RT 35 / SEA GIRT AVE	08750	LUST	
SEA GIRT	S104387086	BROOKSIDE SCHOOL	310 RTE 35	08750	LUST	
SPRING LAKE	S104919612	2004 ROUTE 71	2004 RTE 71	07762	BROWNFIELDS	
SPRING LAKE	U000368370	SMRA PITNEY AVE.	S. BLVD. NEAR OCEAN AVE.	07762	UST	0265052
SPRING LAKE	1000542628	WALL AMOCO	2004 STATE ROUTE 35	07762	RCRIS-SQG, FINDS	
SPRING LAKE HEIGHTS	S104394300	SUNOCO SERVICE STATION #0007-7545	RTE #71 / WARREN RD	07762	LUST	99-02-24-1547-50
SPRING LAKE HEIGHTS	1001221951	GETTY PETROLEUM CORP 56113	2313 RTE 71 WALL ST	07762	RCRIS-SQG, FINDS	
SPRING LAKE HEIGHTS	S104387947	BROWN'S AUTO SHOP	1820 ROUTE 71	07762	LUST	89-04-11-1514
SPRING LAKE HEIGHTS	S104388296	MOBIL S/S #15-K5M	RT 71 / SHORE RD	07762	LUST	89-12-20-1134
SPRING LAKE HEIGHTS	S104389987	GETTY S/S #56113	2313 RTE 71	07762	LUST	92-07-10-1235
SPRING LAKE HEIGHTS	S104390161	SPRING LAKE HEIGHTS SCHOOL	1110 RTE 71	07762	LUST	92-09-18-0827
SPRING LAKE HEIGHTS	S104392463	EMPTY LOT/FORMER SERVICE STATION	2004 RTE 71	07762	LUST	96-08-14-1517-24
SPRING LAKE HEIGHTS	S104588891	JOB LOT	RTE 71 / WALL RD	07762	LUST	92-08-18-1041
SPRING LAKE HEIGHTS	U000357000	12K5M	RT 71 & SHORE PL	07762	UST	0062264
SPRING LAKE HEIGHTS	S104389472	EXXON S/S #3-7044	RT 71/WARREN AVE	07762	LUST	91-10-14-1700
SPRING LAKE HEIGHTS	S104387435	SPRING LAKE HEIGHTS MUNICPAL GARAGE	ATLANTIC AVE	07762	LUST	86-09-29-06C
SPRING LAKE HEIGHTS	S104588196	SAINT CATHARINE'S SCHOOL	SECOND / SALEM AVES	07762	LUST	89-11-21-1431
WALL TWP.	1004654347	SUN CLEANERS	2213 ROUTE 35	08750	CERCLIS	

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/29/02
Date Made Active at EDR: 02/25/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/04/02
Elapsed ASTM days: 21
Date of Last EDR Contact: 02/04/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 01/17/02
Date Made Active at EDR: 02/25/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/04/02
Elapsed ASTM days: 21
Date of Last EDR Contact: 02/04/02

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/21/01
Date Made Active at EDR: 02/04/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/26/01
Elapsed ASTM days: 40
Date of Last EDR Contact: 12/26/01

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 11/21/01
Date Made Active at EDR: 02/04/02
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/26/01
Elapsed ASTM days: 40
Date of Last EDR Contact: 12/16/01

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/14/01
Date Made Active at EDR: 01/14/02
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 11/14/01
Elapsed ASTM days: 61
Date of Last EDR Contact: 11/14/01

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00
Date Made Active at EDR: 07/31/00
Database Release Frequency: Varies
Date of Data Arrival at EDR: 07/10/00
Elapsed ASTM days: 21
Date of Last EDR Contact: 01/14/02

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00
Date Made Active at EDR: 09/06/00
Database Release Frequency: Varies
Date of Data Arrival at EDR: 08/11/00
Elapsed ASTM days: 26
Date of Last EDR Contact: 02/01/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/99
Database Release Frequency: Biennially
Date of Last EDR Contact: 12/17/01
Date of Next Scheduled EDR Contact: 03/18/02

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies
Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/00
Database Release Frequency: Annually

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/29/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/04/02
Date of Next Scheduled EDR Contact: 05/06/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/29/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4526
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/21/02
Date of Next Scheduled EDR Contact: 04/22/02

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 12/14/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/02/02
Date of Next Scheduled EDR Contact: 04/01/02

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/19/01
Date of Next Scheduled EDR Contact: 02/18/02

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3936
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 02/12/02
Date of Next Scheduled EDR Contact: 05/13/02

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/11/01
Date of Next Scheduled EDR Contact: 03/11/02

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/99
Database Release Frequency: Annually

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-5521
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 01/22/02
Date of Next Scheduled EDR Contact: 04/22/02

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/11/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 01/14/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF NEW JERSEY ASTM STANDARD RECORDS

SHWS: Known Contaminated Sites in New Jersey Except Those Associated with Bureau of Underground Storage Sites (BUST)
Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
The Known Contaminated Sites in New Jersey includes sites under the purview of the Site Remediation Program which have contamination present at levels greater than the applicable cleanup criteria for soil and/or groundwater standards. The sites appearing in Known Contaminated Sites in New Jersey are classified as either active, where the site is assigned to a specific remedial program area, or pending, where the site is awaiting assignment to a specific remedial program area. Sites where no further action (NFA) designation has been given are not included in this report unless there are other areas of identified contamination which have not been remediated. This report includes sites being remediated under all of the various regulatory programs administered by the Site Remediation Program such as: Federal Superfund Program, Federal Resource Conservation and Recovery Act (RCRA), New Jersey's Industrial Site Recovery Act (ISRA), New Jersey's Underground Storage of Hazardous Substances Act, New Jersey's Spill Compensation and Control Act, New Jersey's Solid Waste Management Act, New Jersey's Water Pollution Control Act.

Date of Government Version: 05/01/01
Date Made Active at EDR: 07/25/01
Database Release Frequency: Varies

Date of Data Arrival at EDR: 06/18/01
Elapsed ASTM days: 37
Date of Last EDR Contact: 12/26/01

SWF/LF: Solid Waste Facility Directory
Source: Department of Environmental Protection
Telephone: 609-984-6741
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/12/01
Date Made Active at EDR: 01/31/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/07/02
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/03/01

LUST: Regulated UST Contamination Sites Listing
Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/04/02
Date Made Active at EDR: 01/21/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 01/07/02
Elapsed ASTM days: 14
Date of Last EDR Contact: 11/30/01

UST: Underground Storage Tank Data
Source: Department of Environmental Protection
Telephone: 609-633-1455
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/15/99
Date Made Active at EDR: 10/18/99
Database Release Frequency: Annually

Date of Data Arrival at EDR: 09/15/99
Elapsed ASTM days: 33
Date of Last EDR Contact: 01/08/02

STATE OF NEW JERSEY ASTM SUPPLEMENTAL RECORDS

NJ MAJOR FACILITIES: List of Major Facilities
Source: Department of Environmental Protection
Telephone: 609-292-1690
Major facilities means all facilities, located on one or more contiguous or adjacent properties owned or operated by the same person, having total combined storage capacity of 20,000 gallons or more for hazardous substances other than petroleum or petroleum products, or 200,000 gallons or more of hazardous substances of all kinds.

Date of Government Version: 01/02/02
Database Release Frequency: Biennially

Date of Last EDR Contact: 02/18/02
Date of Next Scheduled EDR Contact: 05/20/02

NJ Spills: Spills
Source: Department of Environmental Protection
Telephone: 609-633-0898
Initial notification information of hazardous material incidents, where there is land contamination, reported to the Department of Environmental Protection's Environmental Action Line. The DEP has not conducted any investigation to determine its validity or accuracy.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

NJ Release: Hazardous Material Incident Database
Source: Department of Environmental Protection
Telephone: 604-633-0898
Hazardous material release. Initial notification information reported to the Department of Environmental Protection's Environmental Action Line and the office has not conducted any investigations to determine its validity or accuracy.

Date of Government Version: 12/31/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

PF: Publicly Funded Cleanups Site Status Report
Source: Department of Environmental Protection
Telephone: 609-292-9418
The report focuses on publicly funded cleanups and features progress achieved and underway at all sites that are being addressed by the NJDEP with public funds.

Date of Government Version: 12/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 11/01/01
Date of Next Scheduled EDR Contact: 02/25/02

CHROME: Chromate Chemical Production Waste Sites
Source: Department of Environmental Protection
Telephone: 609-984-4071
Known chromate chemical production waste sites.

Date of Government Version: 11/21/01
Database Release Frequency: Varies

Date of Last EDR Contact: 12/12/01
Date of Next Scheduled EDR Contact: 03/11/02

BROWNFIELDS: Brownfields Database
Source: Department of Environmental Protection
Telephone: 609-633-0537
Brownfields are identified as former or current commercial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria.

Date of Government Version: 04/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/18/02
Date of Next Scheduled EDR Contact: 04/15/02

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

New Jersey State Wetlands

Source: New Jersey Department of Environmental Protection

This data was obtained by EDR in 1998 from the New Jersey Department of Environmental Protection.

The EDR-City Directory
Abstract

Department of Public Works
Fifth Avenue/Monmouth Avenue
Springlake, NJ 07762

March 05, 2002

Inquiry Number: 740421-5

Environmental Data Resources, Inc.

***The* Source For Environmental Risk Management Data**

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.
City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources. Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-00, Section 7.3.4, page 12.)

EDR's City Directory Abstract includes a search and abstract of available city directory data.

City Directories
City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1527-00 specifies that a *"review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice." (ASTM E 1527-00, Section 7.3.4, page 12.)*

Please call EDR Nationwide Customer Service at
1-800-352-0050 (8am-8pm EST)
with questions or comments about your report.
Thank you for your business!

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Environmental Data Resources, Inc.

Prior Use Report® Timeline

Target Property

Legend:

= Historical Topographic Map (**HT**)

= National Wetland Inventory Map (**WT**) *

= Flood Prone/FEMA Maps (**FP/FR**) *

= Aerial Photos Included (**P**) *

= Aerial Photos Available *

= Residential (**R**)

= Commercial or Industrial (**C**)

Superscript number corresponds to graph ID in text

**Displayed on timeline when aerial photos, flood prone, FEMA, wetland maps, or Aerial Research Summary are purchased.*

Target Property:	Department of Public Works	**Customer:**	T and M Associates
Address:	Fifth Avenue/Monmouth Avenue	**Contact:**	Timmie Perry
City/State/Zip:	Springlake, NJ 07762	**Inquiry #:**	740421-5
		Date:	3/5/2002

4. SUMMARY

- *City Directories:*

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1970 through 2000. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources:
City Directories Mar 05, 2002

Target Property:
Fifth Avenue/Monmouth Avenue
Springlake, NJ 07762

PUR ID Year	*Uses*	*Portion-Findings (FIM Information Only)*	*Source*
-- 1970	Address not Listed in Research Source		Street Address City Directory
-- 1975	Address not Listed in Research Source		Street Address City Directory
-- 1980	Address not Listed in Research Source		Street Address City Directory
-- 1985	Address not Listed in Research Source		Street Address City Directory
-- 1990	Address not Listed in Research Source		Street Address City Directory
-- 1995	Address not Listed in Research Source		Street Address City Directory
-- 2000	Address not Listed in Research Source		Street Address City Directory

Adjoining Properties

SURROUNDING
5th Avenue
Spring Lake, NJ 07762

Surrounding Area Property Log of Address Changes
2000 5th Avenue

PUR ID Year	*Uses*	*Portion-Findings (FIM Information Only)*	*Source*
1970	**5th Avenue Addresses**		Street Address City Directory
	Address Not Listed in Research Source (404,500)		
	Residence (601)		
	Residence (604)		
	Residence (605)		
1975	**5th Avenue Addresses**		Street Address City Directory
	Address Not Listed in Research Source (404,500)		
	Residence (601)		
	Residence (604)		
	Residence (605)		
1980	**5th Avenue Addresses**		Street Address City Directory
	Address Not Listed in Research Source (404,500)		
	Residence (601)		
	No Return (604)		
	Residence (605)		
1985	**5th Avenue Addresses**		Street Address City Directory
	No Return (404)		
	Address Not Listed in Research Source (500)		

PUR ID *Year*	*Uses*	*Portion-Findings (FIM Information Only)*	*Source*
1985 (continued)	Residence (601)		
	Residence (604)		
	Residence (605)		
1990	**5th Avenue Addresses**		Street Address City Directory
	Residence (404)		
	Address Not Listed in Research Source (500)		
	Residence (601)		
	Residence (604)		
	Residence (605)		
1995	**5th Avenue Addresses**		Street Address City Directory
	Residence [redacted]		
	Address Not Listed in Research Source (500)		
	Residence (601)		
	Residence (604)		
	Residence (605)		
2000	**5th Avenue Addresses**		Street Address City Directory
	Reside[redacted]		
	Address Not Listed in Research Source (500)		
	Residence (601)		
	Residence (604)		
	Residence (605)		

Glossary of Terms

A.A.A.

Aerial photograph flyer: Agriculture Adjustment Administration (Federal).

A.S.C.S

Aerial photograph flyer: Agricultural Stabilization and Conservation Service (Federal)

Address in Research Source

Indicates that a property is listed at a different address than the one provided by the user. Generally occurs when a property is located on a corner or, when the physical address of a property is different than its mailing address.

Address Not Listed in Research Source

Occurs when a specific site address is not listed in city directories and/or fire insurance maps.

Adjoining

Any property that is contiguous, or a property that would be contiguous if not for a public thoroughfare, to the target property. *To differentiate from each adjoining property, stand at the target property's "front door" facing the street.*

Adjoining Back

Property directly to the rear of the target property. (Applies only to fire insurance map data.)

Adjoining Front

Property directly in front of the target property. (Applies only to fire insurance map data.)

Adjoining Left

Property directly to the left of the target property. (Applies only to fire insurance map data.)

Adjoining Right

Property directly to the right of the target property. (Applies only to fire insurance map data.)

Adjoining Surrounding Area

Property that may adjoin the target property but due to lack of specific map information cannot be located precisely. This situation typically occurs when city directory information, but not fire insurance map information, is available.

C.A.S

Aerial photograph flyer: Chicago Aerial Survey (private).

C.S.S.

Aerial photograph flyer: Commodity Stabilization Service (Federal).

Cartwright

Aerial photograph flyer: Cartwright (private)

CD

City Directory

Commercial

Any property including, but not limited to, property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units.

Commercial or Industrial

Property that has either a commercial *or* an industrial use. Examples include retail stores, manufacturing facilities, factories, and apartment buildings.

D.N.R.

Aerial photograph flyer: Department of National Resources (state).

D.O.T.

Aerial photograph flyer: Department of Transportation (state).

Fairchild

Aerial photograph flyer: Fairchild (private).

FIM

Fire Insurance Map

Flood Insurance Rate Maps

Flood Insurance Rate Maps are produced by the Federal Emergency Management Agency (FEMA). These maps indicate special flood hazard areas, base flood elevations and flood insurance risk zones.

Flood Prone Area Maps

Flood Prone Area maps are produced by the United States Geological Survey (USGS). Areas identified as flood prone have been determined by available information gathered from past floods.

F.S.

Aerial photograph flyer: Forest Service (Federal).

Geonex

Aerial photograph flyer: Geonex (private).

M.C.

Aerial photograph flyer: Metropolitan Council of the Twin Cities Area (state).

Mark Hurd

Aerial photograph flyer: Mark Hurd (private)

N.A.P.P.

Aerial photograph flyer: National Aerial Photography Program (Federal).

National Wetland Inventory Maps

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a division of the U.S. Department of the Interior. Wetland and deepwater habitat information is identified on a 7.5 minute U.S.G.S. topographic map. The classification system used categorizes these habitats into five systems: marine, estuarine, riverine, lacustrine and palustrine.

No Return

Indicates that site owner was unavailable at time of surveyor's contact. *(Applies only to city directories.)*

No Structure Identified on Parcel

Used when site boundaries and/or site address is indicated on a fire insurance map; no structure details exist.

Other

Occurs when the site's classification is different that EDR's standard categories. Examples may include undeveloped land and buildings with no specified function.

P.M.A.

Aerial photograph flyer: Production and Marketing Administration (Federal).

Pacific Aerial

Aerial photograph flyer: Pacific Aerial (private)

Portion

Refers to the fire insurance map information identified on the four quadrants of a target or adjoining property. The portions are referred to as *Frontright*, *Frontleft*, *Backright*, and *Backleft* and are determined as if one were standing at the front door, facing the street.

Property Not Defined

Used when property is not clearly demarcated on a fire insurance map.

Residential

Any property having fewer than five dwelling units used exclusively for residential purposes.

Residential with Commercial Uses (a.k.a. Multiple Purpose Address)

A business (firm) and residence at the same address. Examples include a doctor, attorney, etc. working out of his/her home.

Sidwell

Aerial photograph flyer: Sidwell (private).

Site Not Mapped

Occurs when an adjoining property has not been mapped by fire insurance map surveyors. (Applies only to fire insurance map data.)

Teledyne

Aerial photograph flyer: Teledyne (private)

Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS). These maps are color coded line and symbol representations of natural and selected artificial features plotted to scale.

Turnbow

Aerial photograph flyer: Michael Turnbow (private)

U.S.D.A.

Aerial photograph flyer: United States Department of Agriculture (Federal).

U.S.D.I.

Aerial photograph flyer: United States Department of the Interior (Federal).

U.S.G.S.

Aerial photograph flyer: United States Geological Survey (Federal).

Vacant

May refer to an unoccupied structure or land. *Used only when fire insurance map or city directory specifies 'vacant.'*

W.P.A.

Aerial photograph flyer: Works Progress Administration (Federal).

WALLACE

Aerial photograph flyer: Wallace (private).

The EDR-Aerial Photography Print Service

Department of Public Works
Fifth Avenue/Monmouth Avenue
Springlake, NJ 07762

March 4, 2002

Inquiry Number: 740421-7

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.
Aerial Photography Print Service

Environmental Data Resources, Inc.'s (EDR) Aerial Photography Print Service is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources. Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-00, Section 7.3.4, page 12.

Aerial Photographs

Aerial photographs are a valuable historical resource for documenting past land use and can be particularly helpful when other historical sources (such as city directories or fire insurance maps) are not reasonably ascertainable. The EDR Aerial Photograph Print Service includes a search of aerial photograph collections flown by public and private agencies for the state of New Jersey. EDR's professional field-based researchers provide digitally reproduced historical aerial photographs at approximately ten year intervals.

Disclaimer
Copyright and Trademark Notice

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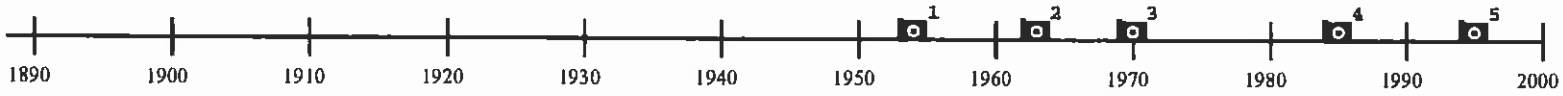
Environmental Data Resources, Inc.

Prior Use Report® Timeline

Target Property



Legend:

= Historical Topographic Map (**HT**)

= National Wetland Inventory Map (**WT**) *

= Flood Prone/FEMA Maps (**FP/FR**) *

= Aerial Photos Included (**P**) *

= Aerial Photos Available *

= Residential (**R**)

= Commercial or Industrial (**C**)

Superscript number corresponds to graph ID in text

**Displayed on timeline when aerial photos, flood prone, FEMA, wetland maps, or Aerial Research Summary are purchased.*

Target Property: Department of Public Works
Address: Fifth Avenue/Monmouth Avenue
City/State/Zip: Springlake, NJ 07762

Customer: T and M Associates
Contact: Timmie Perry
Inquiry #: 740421-7
Date: 03/04/02

4. SUMMARY

- *Aerial Photographs:*

Date EDR Searched Historical Sources:
Aerial Photography March 04, 2002
Fire Insurance Maps March 04, 2002

Target Property:
Fifth Avenue/Monmouth Avenue
Springlake, NJ 07762

PUR ID *Year*	*Uses*	*Portion-Findings (FIM Information Only)*	*Source*
1 1954	Aerial Photograph. Scale: 1"=750'	Panel #: 2440074-B1/Flightdate: April 9, 1954	nar
2 1963	Aerial Photograph. Scale: 1"=750'	Panel #: 2440074-B1/Flightdate: May 13, 1963	nar
3 1970	Aerial Photograph. Scale: 1"=750'	Panel #: 2440074-B1/Flightdate: June 13, 1970	nar
4 1985	Aerial Photograph. Scale: 1"=1000'	Panel #: 2440074-B1/Flightdate: March 16, 1985	nar
5 1995	Aerial Photograph. Scale: 1"=833'	Panel #: 2440074-B1/Flightdate: March 29, 1995	nar

Glossary of Terms

A.A.A.

Aerial photograph flyer: Agriculture Adjustment Administration (Federal).

A.S.C.S

Aerial photograph flyer: Agricultural Stabilization and Conservation Service (Federal)

Address in Research Source

Indicates that a property is listed at a different address than the one provided by the user. Generally occurs when a property is located on a corner or, when the physical address of a property is different than its mailing address.

Address Not Listed in Research Source

Occurs when a specific site address is not listed in city directories and/or fire insurance maps.

Adjoining

Any property that is contiguous, or a property that would be contiguous if not for a public thoroughfare, to the target property. *To differentiate from each adjoining property, stand at the target property's "front door" facing the street.*

Adjoining Back

Property directly to the rear of the target property. (Applies only to fire insurance map data.)

Adjoining Front

Property directly in front of the target property. (Applies only to fire insurance map data.)

Adjoining Left

Property directly to the left of the target property. (Applies only to fire insurance map data.)

Adjoining Right

Property directly to the right of the target property. (Applies only to fire insurance map data.)

Adjoining Surrounding Area

Property that may adjoin the target property but due to lack of specific map information cannot be located precisely. This situation typically occurs when city directory information, but not fire insurance map information, is available.

C.A.S

Aerial photograph flyer: Chicago Aerial Survey (private).

C.S.S.

Aerial photograph flyer: Commodity Stabilization Service (Federal).

Cartwright

Aerial photograph flyer: Cartwright (private)

CD

City Directory

Commercial

Any property including, but not limited to, property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units.

Commercial or Industrial

Property that has either a commercial *or* an industrial use. Examples include retail stores, manufacturing facilities, factories, and apartment buildings.

D.N.R.

Aerial photograph flyer: Department of National Resources (state).

D.O.T.

Aerial photograph flyer: Department of Transportation (state).

Fairchild

Aerial photograph flyer: Fairchild (private).

FIM

Fire Insurance Map

Flood Insurance Rate Maps

Flood Insurance Rate Maps are produced by the Federal Emergency Management Agency (FEMA). These maps indicate special flood hazard areas, base flood elevations and flood insurance risk zones.

Flood Prone Area Maps

Flood Prone Area maps are produced by the United States Geological Survey (USGS). Areas identified as flood prone have been determined by available information gathered from past floods.

F.S.

Aerial photograph flyer: Forest Service (Federal).

Geonex

Aerial photograph flyer: Geonex (private).

M.C.

Aerial photograph flyer: Metropolitan Council of the Twin Cities Area (state).

Mark Hurd

Aerial photograph flyer: Mark Hurd (private)

N.A.P.P.

Aerial photograph flyer: National Aerial Photography Program (Federal).

National Wetland Inventory Maps

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a division of the U.S. Department of the Interior. Wetland and deepwater habitat information is identified on a 7.5 minute U.S.G.S. topographic map. The classification system used categorizes these habitats into five systems: marine, estuarine, riverine, lacustrine and palustrine.

No Return

Indicates that site owner was unavailable at time of surveyor's contact. *(Applies only to city directories.)*

No Structure Identified on Parcel

Used when site boundaries and/or site address is indicated on a fire insurance map; no structure details exist.

Other

Occurs when the site's classification is different that EDR's standard categories. Examples may include undeveloped land and buildings with no specified function.

P.M.A.

Aerial photograph flyer: Production and Marketing Administration (Federal).

Pacific Aerial

Aerial photograph flyer: Pacific Aerial (private)

Portion

Refers to the fire insurance map information identified on the four quadrants of a target or adjoining property. The portions are referred to as *Frontright*, *Frontleft*, *Backright*, and *Backleft* and are determined as if one were standing at the front door, facing the street.

Property Not Defined

Used when property is not clearly demarcated on a fire insurance map.

Residential

Any property having fewer than five dwelling units used exclusively for residential purposes.

Residential with Commercial Uses (a.k.a. Multiple Purpose Address)

A business (firm) and residence at the same address. Examples include a doctor, attorney, etc. working out of his/her home.

Sidwell

Aerial photograph flyer: Sidwell (private).

Site Not Mapped

Occurs when an adjoining property has not been mapped by fire insurance map surveyors. (Applies only to fire insurance map data)

Teledyne

Aerial photograph flyer: Teledyne (private)

Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS). These maps are color coded line and symbol representations of natural and selected artificial features plotted to scale.

Turnbow

Aerial photograph flyer: Michael Turnbow (private)

U.S.D.A.

Aerial photograph flyer: United States Department of Agriculture (Federal).

U.S.D.I.

Aerial photograph flyer: United States Department of the Interior (Federal).

U.S.G.S.

Aerial photograph flyer: United States Geological Survey (Federal).

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W.P.A.

Aerial photograph flyer: Works Progress Administration (Federal).

WALLACE

Aerial photograph flyer: Wallace (private).

Appendix D
List of Known contaminated Sites in the Borough of Spring Lake

County: MONMOUTH
Municipality: SPRING LAKE BOROUGH

A SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION

Site Name / Contact	Case Number	Site Address / Case Status	Status Date	Site Identifier / Control/Remedial Action Type
1111 THIRD AVE		1111 THIRD AVE		NJL800391955
BFO-S	980311145815	ACTIVE	12/23/99	
EXXON SERVICE STATION SPRING LAKE BORO		RTE 71 & WARREN AVE		NJD986610558
BUST	0083766	ACTIVE	5/31/95	
MOBIL SERVICE STATION SPRING LAKE BORO		RTE 71 & SHORE PL		NJD986606325
BUST	0062264	ACTIVE	12/20/89	
SPRING LAKE BOROUGH BOARD OF EDUCATION		411 TUTTLE AVE		NJL600070551
BFMCR	0112420	ACTIVE	8/30/90	
SPRING LAKE DEPARTMENT OF PUBLIC WORKS		MONMOUTH & 5TH AVES		NJL800449597
BUST	0097365	ACTIVE	12/24/98	

5 SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION IN SPRING LAKE BOROUGH

KCS-NJ County - Municipality Listing (2001 Edition)
County and Municipality: MONMOUTH SPRING LAKE HEIGHTS BOROUGH

County: MONMOUTH
Municipality: SPRING LAKE HEIGHTS BOROUGH

A SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION

Site Name / Contact	Case Number	Site Address / Case Status	- Status Date	Site Identifier / Control/Remedial Action Type
16 JASON DR BFO-S	000406224344	16 JASON DR ACTIVE	- 5/17/00	NJL800564635
20 JAS[redacted] BFO-S	990526121112	20 JASON DR ACTIVE	- 8/3/99	NJL800495525
BROWNS AUTO SHOP BUST	0151797	1820 RTE 71 ACTIVE	- 4/11/89	NJD986616167
GETTY SERVICE STATION SPRING LAKE HEIGHT BUST	0016995	2313 RTE 71 & WALL RD ACTIVE	- 8/24/93	NJL600199129
SPRING LAKE HEIGHTS DEPT OF PUBLIC WORKS BUS[redacted]	0044435	555 ATLANTIC AVE ACTIVE	- 9/29/86	NJD981873342
SPRING LAKE MINI MALL BFO-S	981001093858	RTE 71 S & WALL RD ACTIVE	- 10/20/98	NJL800002966
SUNOCO SERVICE STATION SPRING LAKE HEIGH BFO-I[redacted]	990224154750	WARREN AVE & RTE 71 ACTIVE	- 6/21/99	NJL800008070

7 SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION IN SPRING LAKE HEIGHTS BOROUGH

Appendix E
Contacts, Consultations and Correspondence

Mr. Robert Weinmiller, Director of Department of Public Works
Borough of Spring Lake
7 Gifford Road
Little Egg Harbor, NJ 08087
(609) 296-7241

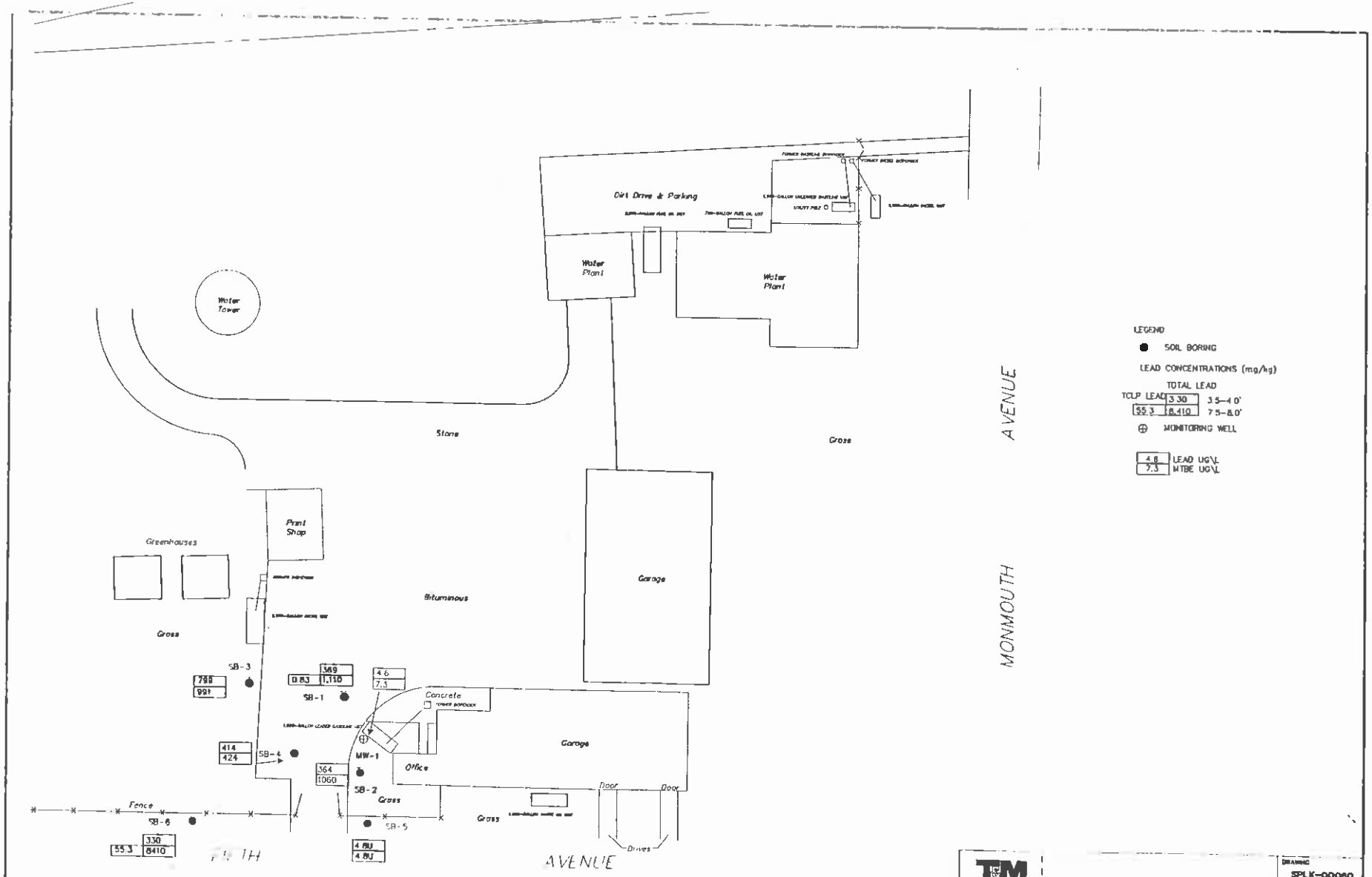
Dan Volpe, Account Executive
Environmental Data Resources
3530 Post Road
Southport, CT 06490
(800) 352-0050

Sanborn Map Search, Aerial photos, Environmental records search, Historical USGS Topographic Map search

Sprg Lake DPW

Pipe discovered from ash fill from incinerator on-site

Landfill WS Antenna incinerator no longer active



ELEVEN TINDALL ROAD, MIDDLETOWN, NJ 07748-2792
(732) 671-6400 * fax (732) 671-7365 * www.tandmassociates.com

T&M ASSOCIATES

SPLK-00061

July 1, 2003

Bob Steinhagen
New Jersey Department of Environmental Protection
Bureau of Underground Storage Tanks
P.O. Box 433
401 East State Street
Trenton, NJ 08625-0433

JUL 0 2 2003
Hazardous Site Mitigation Administration
Bureau of Industrial
Site Evaluation
CN026
Trenton, NJ 08625

Re: Department of Public Works - Monmouth & Fifth Avenues
Borough of Spring Lake
Preliminary Assessment Report Submittal

Dear Mr. Steinhagen:

Enclosed is the *Preliminary Assessment (PA)* for the above referenced site. The PA summarizes activities performed in accordance with your letter dated August 1, 2000. All PA activities were performed in accordance with NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

In accordance with NJAC 7:26-1.2 et. seq., we have also enclosed certification signed by the Spring Lake Borough Administrator and notarized by a notary public.

If you have any questions, please call.

Very truly yours,

T&M ASSOCIATES

GLENN A. SMALL, P.E.
SUPERVISING ENGINEER

FGM:scb
Enclosures
cc: Thomas A. Ferguson, Borough Administrator (w/o enclosures)
H:\SPLK\00061\Correspondence\Steinhagen_GAS_Preliminary Assessment Rprt Submittal.DOC

CERTIFICATIONS
N.J.A.C. 7:26-1.2 et. Seq.

Any person making a submission to the Department required by this chapter and pursuant to N.J.SA.C. 7:26E, shall include the following signature and notarized certification, for each technical submittal. Additionally, the certification shall indicate the case name and address, case number, type of documents submitted, e.g. Remedial Action Report, for each technical submittal.

TYPE OF DOCUMENT Preliminary Assessment Report

CASE NAME Borough of Spring Lake

CASE ADDRESS Monmouth and Fifth Avenues, Spring Lake, Monmouth County, New Jersey

CASE NUMBER 98-11-12-0857-49

The following certification shall be signed by:

1. For a corporation, by a principal executive officer of tat least the level of vice president;
2. For a partnership or sole proprietorship, by general partner of the proprietor, respectively, or;
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.
4. For persons other than 1 through 3 above, the person with legal responsibility for the site.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement that I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

PRINTED NAME Thomas A. Ferguson TITLE Borough Administrator

SIGNATURE [signature] DATE 6/13/02

NOTARY SIGNATURE [signature] DATE 6/13/02

MARY ANNE COOGAN
Notary Public Of New Jersey
My Commission Expires Jan. 30, 2006

SPLK-00061

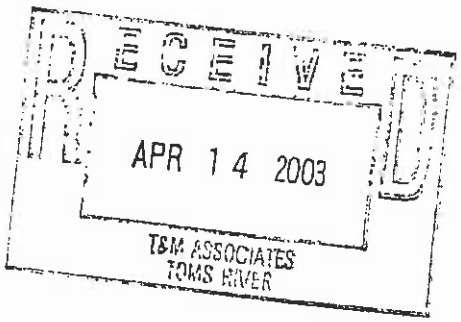
(732) 449-0800

Fax (732) 449-8797

Borough of Spring Lake

Fifth & Warren Avenues
Spring Lake, New Jersey 07762

April 10, 2003



Charles Rooney, P.E., Sr. Vice President
T & M ASSOCIATES
201 Hooper Avenue
Toms River, NJ 08753-7607

RE: MOA with NJDEP
Department of Public Works Site

Dear Charley:

Enclosed for your file is a copy of Resolution No. 25-2003 along with a copy of the letter sent to the Bureau Chief for the Division of Responsible Party site Remediation with the DEP. I realized that it was an oversight on my part to not have copied in the original letter.

If there is anything further you should need regarding this, just let me know.

For the Mayor and Council, I am

Very truly yours,

Mary Anne Coogan, RMC
BOROUGH CLERK

Enclosures

Spring Lake

Resolution No. 25
February 25, 2003

RESOLUTION

WHEREAS, it is in the interest of the Borough of Spring Lake to enter into a Memorandum of Agreement ("MOA") with the N.J. Department of Environmental Protection, through their Voluntary Cleanup Program, to address the lead concentrations detected at the DPW site.

WHEREAS, by utilizing the MOA it provides a mechanism to obtain a sign-off from the NJDEP for their review of the Preliminary Assessment, the Site Investigation or any other report submitted for the DPW site.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the Borough of Spring Lake, County of Monmouth, State of New Jersey, that the Mayor be authorized to sign the Memorandum of Agreement for such purposes as stated above.

I hereby certify the foregoing to be
A true copy of a resolution adopted
By the Mayor and Council of the
Borough of Spring Lake on 2/25/03.

Mary Anne Coogan, RMC
Borough Clerk

(732) 449-0800

Borough of Spring Lake

Fax (732) 449-8797

Fifth & Warren Avenues
Spring Lake, New Jersey 07762

March 13, 2003

Division of Responsible Party Site Remediation
Bureau of Field Operations
401 East State Street
P.O. Box 434
Trenton, New Jersey 08625-0434

Attn: Bureau Chief – Case Assignment Section

Dear Sir:

Enclosed please find certified copies of Resolution No. 25, which was adopted by the Mayor and Council of the Borough of Spring Lake, authorizing the Mayor to sign the Memorandum of Agreement For Non-Residential Properties for Lot 1 in Block 26, the Borough Yard of the Borough of Spring Lake.

I have also enclosed three(3) copies of the MOA, which have been signed and notarized by Spring Lake. Would you kindly ask Mr. Krisak to sign the MOA on behalf of the NJDEP and return one completed copy to the undersigned for our files.

For the Mayor and Council, I am

Very truly yours,

Mary Anne Coogan, RMC
Borough Clerk

Enclosures: 5

C: Administrator Ferguson

Spring Lake

MEMORANDUM OF AGREEMENT FOR NON-RESIDENTIAL PROPERTIES

This Memorandum of Agreement (Agreement) has been developed so that any party interested in conducting a cleanup at a non-residential property can do so with oversight from the Department. The Department will provide oversight as long as the Department is reimbursed for the cost of its review. This Agreement must be completed in its entirety by the party interested in conducting the cleanup activities and/or the party's authorized agent, and shall include a fully executed copy of the attached certification. The Department can not process any applications unless all the information requested is complete and all questions are answered to the satisfaction of the Department. Once completed the Agreement must be submitted to the following address:

Division of Responsible Party Site Remediation
Bureau of Field Operations
401 East State Street, PO Box 434
Trenton, NJ 08625-0434

Attention: Bureau Chief - Case Assignment Section

(609) 292-2943

Answer all questions as completely as possible. If you have any questions when completing this form, it is recommended that you contact the Case Assignment Section at (609) 292-2943 between the hours of 8:00 AM and 5:00 PM for assistance.

This Agreement is entered into pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (hereinafter "the Department") by N.J.S.A. 13:1D-1 et seq. and N.J.S.A. 58:10B et seq. and the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq. and the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11 et seq. and duly delegated to the Section Chief, Division of Responsible Party Site Remediation, Bureau of Field Operations pursuant to N.J.S.A. 13:1B-4.

This Agreement is to be used as a formal request for Department oversight of cleanup activities pursuant to the Procedures for Department Oversight of the Remediation of Contaminated Sites (N.J.A.C. 7:26C et seq.)and review of reports submitted pursuant to the Technical Rules for Site Remediation (N.J.A.C. 7:26E et seq.).

MEMORANDUM OF AGREEMENT FOR NON-RESIDENTIAL PROPERTIES

CASE NUMBER 98-11-12-0857-49 DATE January 16, 2003

A. Current Use: Agricultural _____ Industrial _____ Undeveloped _____
Commercial _____ Other X

B. Site Name Borough of Spring Lake DPW

C. _____

Street Address Fifth and Monmouth Avenues

_____

_____ Zip Code 07762

Municipality Spring Lake County Monmouth County

Tax Block and Lot Number(s) Block-26, Lot-1

Latitude 40.1464 Longitude 74.0360

Acreage 6.97

Geographic Boundaries Wreck Pond along Southern Property Line

EPA ID # (if applicable) NA

C. **Who will be executing this Agreement?** (if different than Question B)

Name Thomas J. Byrne III

Affiliation Mayor

Address Fifth and Warren Avenues

City Spring Lake State NJ Zip Code 07762

State of Incorporation New Jersey Corp. Status Municipality

Telephone # 732-449-0800

D. Select which phase(s) of the cleanup process are to be performed and what document(s) are to be submitted pursuant to the Agreement being requested.

	REMEDIAL PHASE		DOCUMENTS TO BE SUBMITTED
[x]	Preliminary Assessment	[x]	Preliminary Assessment Report
[ ]	Site Investigation	[ ]	Site Investigation Report
[ ]	Remedial Investigation	[ ]	Remedial Investigation Workplan
[ ]	Remedial Action	[ ]	Remedial Investigation Report
		[ ]	Remedial Action Selection Report
		[ ]	Remedial Action Workplan
		[ ]	Remedial Action Report

E. **Current Site Owner(s)**

Name(s) Borough of Spring Lake

Firm Borough of Spring Lake Telephone # 732-449-0800

Street Address Fifth and Warren Avenues

Municipality Spring Lake

State New Jersey Zip Code 07762

F. **Current Business Operator(s)**

Name(s) Borough of Spring Lake DPW

Firm Borough of Spring Lake

Telephone # 732-449-7693 Street Address Fifth and Monmouth

Municipality Borough of Spring Lake State New Jersey Zip Code 07762

G. **Current Business Owner(s)** (if different than question Part E. or F.)

Name(s)_____

Firm _____ Telephone # _____

Street Address _____

Municipality _____

State _____ Zip Code _____

H. Provide the information requested below on the previous owners of the site and the entities who operated at the site.

Name	Owner or Operator	From	To
Borough of Spring Lake	Borough of Spring Lake DPW	1905	Present

I. For those former Owner(s) and/or Operator(s)identified above (in paragraph H), give a brief discussion of all operations at the site, including but not limited to types of operations, materials used, waste generated, and waste disposal techniques.

Borough of Spring Lake DPW- From 1905 to the present the property has been used as a water works yard and public works yard. An incinerator was used to burn municipal waste and later vegetative waste until the early 1970's.

J. Are there currently or have there ever been any notices on the deed which constitute a Declaration of Environmental Restriction (DER) pursuant to N.J.A.C. 7:26E-1 et seq.?

Yes ____ No __x__ Unknown ____

If yes, please state the name of the site as it was identified in the DER, the address, lot and block and EP ID number (if applicable) associated with the site.

_____

_____

_____

K. Are there currently, or have there ever been any hazardous substances as defined by N.J.A.C. 7:1E-1 et seq., used, treated, stored, disposed or discharged at the site (ie. fuel oil, gasoline)?

Yes __x__ No ____

L. Are there currently, or have there ever been any hazardous wastes as defined by N.J.A.C. 7.26G-16 et seq., used, generated, treated, stored, disposed or discharged at the site?

Yes _X_ No ____ Unknown ____

M. Are there currently, or have there ever been, any above or below ground storage tanks at the site?

Yes _x_ No ____ Unknown ____

N. Did the discharge impact groundwater?

Yes _x_ No ____ Unknown_____

O. What are the current operations at the site?

Borough of Spring Lake water works yard, public works yard and residential recycling center.

P. What are the intended future uses of the site?

Borough of Spring Lake Department of Public Works Yard, residential recycling collection center and water works yard.

Q. Describe briefly the major types of contaminants found at the site and what media they affect.

Lead was detected in the soil.

R. Describe in detail how the contamination came to exist at the site. For example, were there past spills, landfill operations, industrial septic systems, USTs, deposition of fill material, etc.?

Release from an onsite municipal solid waste incinerator

S. List any civil/criminal actions taken against the owner/operator, managers or officials associated with the site for violations of any environmental laws or statutes.

Check here if no violations or alleged violation [x]

Date of action _____

Section of law or statute violated _____

Type of enforcement action _____

Description of the violation _____

_____

How was the violation or alleged violation resolved?

_____

_____

T. List all permits currently held by the applicant for the site. (NJPDES, RCRA, etc.)
BWA permit, Public water supply permit, Solid waste permit for recycling

U. Has a Hazardous Discharge Site Remediation Fund Grant or Loan Application been filed with the Department?

Yes ____ No __x__

V. Has a loan/grant application pursuant to the Underground Storage Tank Finance Act been filed with the Department?

Yes ____ No __x__

W. Is the site located in a Neighborhood Empowerment Zone as defined in P.L.1996,c.62 (New Jersey Urban Redevelopment Act) ?

Yes ____ No _x___ Unknown ____

X. Who will be the contact for all matters of this application?

Name Thomas J. Byrne III Title Mayor

Affiliation Municipality owns property Phone 732-449-0800

Address Fifth and Warren Avenues

City/Town Borough of Spring Lake State New Jersey Zip Code 07762

Y. Is the site currently, or has it ever been, under the oversight of any other program within the Department of Environmental Protection?

Yes ____ No __x__

If Yes, explain:_____

Z. Do you consider this site to be a Brownfield as defined below:

Any former or current commercial or industrial site that is currently vacant or underutilized and on which there has been, or there is suspected to have been, a discharge of a contaminant.

OR

Is the remediation being conducted with the intent to pursue redevelopment?

Yes ___ No _X_

The following certification shall be signed by the highest-ranking individual with overall legal responsibility for implementing the remediation of a site, but shall not include contractors or consultants.

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or;
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.

A duly authorized representative of those persons described above may also sign the certification. A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having a respon sibility for the overall operation of the site or activity, such as the position of plant manager, or a superintendent or person of equivalent responsibility (a duly authorized representative may thus be either a named individual or an individual occupying a named position);
3. The written authorization is submitted to the Department; and
4. If the authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of this subsection shall be submitted to the Department prior to or together with any reports, information or applications to be signed by an authorized representative.

" I certify that I am fully aware of the requirements of N.J.A.C 7:26C-3, specifically as it pertains to the memorandum of agreement by rule. Further, I agree to pay the Department's oversight costs for the Department's review of any submissions pursuant to the memorandum of agreement until such time as I notify the Department that it is no longer feasible or desirable for me to continue with the memorandum of agreement."

SIGNATORY

Date: 3/11/03 BY: Thomas J. Byrne

Signature Thomas J. Byrne, III

Print Full Name Signed Above

Date: 3/11/03 BY: Mary Anne Coogan

Notary Signature

MARY ANNE COOGAN
Notary Public Of New Jersey
My Commission Expires Jan. 30, 2006

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Date:_____ BY:_____

Vincent S. Krisak, Section Chief

The Department will review the application and will respond in writing, within thirty calendar days from receipt of the application, as to whether the application is administratively complete or not. If the application is incomplete the deficiencies shall be listed. If the application is complete, the applicant will be deemed to have entered into an Agreement by rule pursuant to N.J.A.C. 7:26C-3.3.

EF-4095

UA

PRELIMINARY ASSESSMENT REPORT (PA)

Pursuant to the New Jersey Technical Requirements for Site Remediation (N.J.A.C. 7:26E-3.1 and 3.2)

Spring Lake Department of Public Works
Monmouth and Fifth Avenues
Block 26, Lot 1
Spring Lake, Monmouth County, New Jersey

PI# 009736

Prepared for

Borough of Spring Lake
Fifth and Warren Avenue
Spring Lake, New Jersey 07762

Prepared by:

John Vanderslice P.Hyd

JOHN E. VANDERSLICE, P.G.
PRINCIPAL HYDROGEOLOGIST

ELEVEN TINDALL ROAD
MIDDLETOWN, NJ 07748
(732) 671-6400

MAY 2002

Project No. SPLK-00061

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I. EXECUTIVE SUMMARY

The summary findings of this Preliminary Assessment indicate five (5) Area of Concerns (AOC's) on the subject property.

AOC #1: One (1) 3,000-gallon double-walled aboveground storage tank containing equal quantities of diesel and unleaded gasoline in the central portion of the site.

AOC #2: Former 1,000-gallon diesel UST, 1,000-gallon leaded gasoline UST, 2,000-gallon diesel UST, 1,000-gallon waste oil UST and 1,000-gallon unleaded gasoline UST.

AOC #3: Former municipal waste incinerator is located in the southwest corner of the site.

AOC #4: The sand and rock salt bay in the southwest corner of the site.

AOC #5: Recycling dumpsters located throughout the site.

II. SCOPE OF PRELIMINARY ASSESSMENT

2.1 Statement of Work

This Preliminary Assessment has been conducted pursuant to the New Jersey Technical Requirements for Site Remediation (N.J.A.C. 7:26E-3.1 and 3.2).

N.J.A.C. 7:26E-3.1 and 3.2 set forth the Technical Requirements for conducting Preliminary Assessments. In New Jersey, this practice is intended to satisfy the New Jersey Department of Environmental Protection (NJDEP) requirements identifying "Areas of Concern". Compliance with this regulation is intended to serve as evidence that the owner or purchaser at this point in time has completed the process intended to qualify for the "innocent landowner defense" under the Comprehensive Environmental Response Compensation and Liability Act of 1980 known as CERCLA (42 U.S.C. 9601 et seq.) and the New Jersey Spill Compensation and Control Act (N.J.S.A. 58:10-23.11a et seq.).

Areas of Concern

The purpose of conducting a Preliminary Assessment is to identify Areas of Concern that are on the subject property. The term *Area of Concern* is defined as: any *existing or former location where hazardous substances, hazardous wastes, hazardous constituents or pollutants are or were known or suspected to have been discharged, generated, manufactured, refined, transported, stored, handled, treated, disposed or where hazardous substances, hazardous wastes, hazardous constituents or pollutants have or may have migrated.* The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. The term "Area of Concern" is synonymous with the term "Recognized Environmental Condition" as used and defined by the American Society of Testing and Materials (ASTM) in their publication E-1527-97.

2.2 Special Terms and Conditions

Principles

The following principles are an integral part of the N.J.A.C. 7:26E Standard and are intended to be referred to in resolving any ambiguity or exercising such discretion as is accorded the user or environmental professional in performing a Preliminary Assessment or in judging whether a user or environmental professional has conducted diligent inquiry or has otherwise conducted an adequate Preliminary Assessment.

Uncertainty Not Eliminated

No Preliminary Assessment can wholly eliminate uncertainty regarding the potential for Areas of Concern in connection with a property which are not discoverable through the diligent inquiry pursued in compliance with N.J.A.C. 7:26E.

Diligent Inquiry

"Diligent inquiry" under N.J.A.C. 7:26E means a detailed historic record inquiry back to *January 1, 1932* or to a period when the site was naturally vegetated or utilized as farmland (whichever is earlier) or until data failure (i.e. the lack of available historic records dating back this far). Site history information is typically obtained from sources including, but not limited to Sanborn Fire Insurance Maps, McRae's Industrial Directory, Title and Deed, Site Plans and federal, state and local government files.

Environmental Sampling

In the State of New Jersey, environmental sampling and testing is conducted under the *Site Investigation* practice pursuant to the Technical Requirements. N.J.A.C. 7:26E-3.3 that requires sampling of Areas of Concern *which may have a pathway to the environment.* The purpose of sampling is to identify potential contamination in and around any identified Areas of Concern and to determine if further action (remediation) is warranted.

III. SITE HISTORY

The following sections conform to the Preliminary Assessment requirements at N.J.A.C. 7:26E-3.1 which are fully addressed with the appropriate citations listed.

3.1 Location and Legal Description

The ± 6.97 acre property is bounded by Fifth Ave. to the east, Monmouth Ave. to the north, Wreck Pond to the south, and the New York and Long Branch Railroad to the west. The site is currently indicated as Tax Lot 26 of Block 1 in the Borough of Spring Lake, Monmouth County, New Jersey. The United States Geological Survey (USGS) Topographic Quadrangle and Municipal Tax Map for the subject property are included as Figures 1 and 2, respectively.

3.2 Site Inspection

Pursuant to N.J.A.C. 7:26E, an on-site inspection was conducted on May 16, 2002. A T&M Associates engineering technician walked the entire site looking for any type of site improvements or contamination. Based upon inspection and current aerial photos the

property currently is developed. A completed site reconnaissance checklist is included in Appendix A. Photographs taken during the site inspection are included in Appendix B. A site map is included as Figure 3.

During the site inspection, five (5) "readily observable or discoverable" Areas of Concern were identified on the property. These are:

- AOC #1: One (1) 3,000-gallon aboveground storage tank in the central portion of the site.
- AOC #2: Former 1,000-gallon diesel UST, 1,000-gallon leaded gasoline UST, 2,000-gallon diesel UST, 1,000-gallon waste oil UST and 1,000-gallon unleaded gasoline UST.
- AOC #3: Former municipal waste incinerator found in the southwest corner of the site.
- AOC #4: The sand and rock salt bay in the southwest corner of the site.
- AOC #5: Recycling dumpsters located throughout the site.

3.3 Operational and Ownership History

It appears from Sanborn Fire Insurance Maps of the subject property that the Borough of Spring Lake has operated its water works yard and public works yard since at least 1905. The Sanborn Fire Insurance Maps are in Appendix C.

3.4 Descriptions of Past Operations

Pursuant to N.J.A.C. 7:26E-3.1(c)1.ii.(4), the following is a brief description of the prior operations on the property.

Information was requested from the following agencies with regards to past operations the Borough of Spring Lake Department of Public Works Director and Environmental Data Resources (EDR). The subject property has been used as a water works yard and public works yard since at least 1905. An incinerator was used to burn municipal waste and later vegetative waste until the early 1970's. The incinerator ash was spread in the lowlands around the incinerator building.

3.5 Description of Most Recent Operation

Pursuant to N.J.A.C. 7:26E-3.1(c)1.(4), the following is a description of the most recent operation on the site.

The subject property currently is used as a Water Works Facility, Department of Public Works yard and residential recycling collection center.

3.6 Hazardous Substance/Waste Inventory

Pursuant to N.J.A.C. 7:26E-3.1(c)1.iii., the following is a discussion of all raw materials, finished products, formulations and hazardous substances, hazardous wastes, hazardous constituents and pollutants which are or were present on the site, including intermediates and by-products.

Prior to September of 1998 the site contained a 1,000-gallon waste oil UST, 1,000 gallon leaded gasoline UST, 2,000 gallon diesel UST, 1,000 gallon diesel UST, and a 1,000 gallon

unleaded gasoline UST. All UST's have been removed. There is a non-operational incinerator on site that which may have produced hazardous by-products.

A 3,000-gallon above ground storage tank with two 1,500-gallon inner compartments storing gasoline and diesel fuel.

Chlorine gas is used to disinfect water at the water works yard.

3.7 Summary of Wastewater Discharges of Sanitary and/or Industrial Waste

Pursuant to N.J.A.C. 7:26E-3.1(c)1.iv., the following is a discussion of the past and present production processes and their respective water use including the ultimate and potential discharge and disposal points and how and where materials are or were received on-site.

There have been no identified wastewater discharges of industrial wastes on the subject property.

3.8 Areas of Concern (AOCs)

Pursuant to N.J.A.C. 7:26E-3.1(c) 1.v. and the Preliminary Assessment Report Checklist list of Areas of Concern as defined at N.J.A.C. 7:26E-1.8.

AOC #1: One (1) 3,000-gallon aboveground storage tank in the central portion of the site.

AOC #2: Former 1,000-gallon diesel UST, 1,000-gallon leaded gasoline UST, 2,000-gallon diesel UST, 1,000-gallon waste oil UST and 1,000-gallon unleaded gasoline UST.

AOC #3: Former municipal waste incinerator located in the southwest corner of the site.

AOC #4: The sand and rock salt bay in the southwest corner of the site.

AOC #5: Recycling dumpsters located throughout the site.

3.9 Past Site Remediation

Pursuant to N.J.A.C. 7:26E-3.1(c)1.viii., the following is a discussion of the past remediation activities conducted on the site.

A Remedial Investigation Report and two Remedial Investigation Report Addenda were submitted to the NJDEP on December 1998, September 1999 and June 2000 respectively.

Five UST's (1,000-gallon waste oil UST, 1,000-gallon leaded UST, 2,000-gallon diesel UST, 1,000-gallon diesel UST and 1,000-gallon unleaded UST) were properly closed by removal in September 1998.

Contaminated soil from the 1,000 gallon leaded UST was removed on July 2, 1999. Soil samples were taken and a groundwater temporary point was installed and sampled. Only trace contaminants of lead were detected in the groundwater sample.

Twelve soil samples were collected via six soil borings and one monitoring well, MW-1, was installed and sampled on March 1, 2000. Only lead was detected in soil samples.

The NJDEP issued a "No Further Action" for all five UST locations concluded with the NJDEP's letter dated August 1, 2000.

3.10 Historical Data on Environmental Quality

Pursuant to N.J.A.C. 7:26E-3.1(c)1.ix. and x., the following is a discussion of the existing sampling data concerning known contaminants on the site and any information regarding known changes in site conditions or new information developed since completion of previous sampling or remediation.

On March 1, 2000, twelve subsurface soil samples (SB-1A, SB-1B, SB-2A, SB-2B, SB-3A, SB-3B, SB-4A, SB-4B, SB-5A, SB-5B, SB-6A and SB-6B) were collected from within six boreholes located in the vicinity and downgradient of the former 1,000-gallon leaded gasoline UST excavation. All samples were analyzed for total lead. Additional analysis was performed on samples with the highest lead results (SB-1B and SB-6B) for toxicity characteristic leaching procedure (TCLP) metals. The laboratory analytical results for lead ranged from 4.8 mg/kg in samples SB-5A and SB-5B, to 8,410 mg/kg in sample SB-6B.

On March 1, 2000 a groundwater sample was collected from MW-1 and analyzed for volatile organic compounds, MTBE, TBA and lead. All compounds analyzed were reported below the most stringent NJDEP Ground Water Quality Criteria for IIA (NJDEP GWQCIIA) aquifers.

3.11 Discharge History of Hazardous Substances and Wastes

Pursuant to N.J.A.C. 7:26E-3.1(c)1.vii., the following is a discussion of the data or information concerning known discharges that have occurred on the site. The results of the Environmental Data Resources (EDR) report is included in Appendix C.

There are no records of any discharge.

3.12 Aerial Photographic Interpretation

An aerial photograph interpretation has been conducted on this property in order to determine/confirm the historical site use. Aerial photographs obtained through Environmental Data Resources, Inc. were reviewed for the following years: 1954, 1963, 1970, 1985, and 1995. The water works building, public works garage and office and the incinerator can be seen on all the aerials.

3.13 List of Federal, State and Local Permits

Pursuant to N.J.A.C. 7:26E-3.1(c) 1.xi., the following is a list of all Federal, State and local environmental permits for all previous and current owners or operators, applied for or received, or both, for the site.

There are no permits on record for this site.

3.14 Summary of Enforcement Actions

Pursuant to N.J.A.C. 7:26E-3.1(c)1.xii., the following is a list of all enforcement actions for alleged violations of environmental laws concerning the site.

There are no enforcement actions on record for this site.

3.15 List of Known Contaminated Sites in New Jersey Review

The list of Known Contaminated Sites in New Jersey was searched for sites in the Borough of Spring Lake (see Appendix D). Five (5) sites with a known source of contamination were identified on the database.

The nearest of the sites from the Known Contaminated Sites in New Jersey list is the Spring Lake Heights Borough located at 521 Atlantic Avenue. The subject site is in on the Known Contaminated Sites in New Jersey related to the lead detected at the 1,000-gallon leaded UST.

IV. PHYSICAL SETTING ANALYSIS

4.1 Soils

According to the *USDA Soil Survey of Monmouth County*, the following soil type is mapped on the subject property: EWB Evesboro-Klej sand-Urban land complex, 0 to 10 percent slopes.

Evesboro sand is described as excessively drained upland soil. The surface is grayish brown sand 2 inches thick. The subsurface layer is yellowish brown sand 5 inches thick. The subsoil is yellowish brown sand 25 inches thick. The substratum is yellowish brown sand to a depth of 60 inches thick. The seasonal water table is at a depth of more than six feet.

A Soils Map for the subject property is included as Figure 4 and is from the Soil Survey of Monmouth County, New Jersey and is published by the United States Department of Agriculture, Soil Conservation Service.

4.2 Topography

The subject property is relatively level with a slight slope towards the southeast. The property is at or near an elevation of approximately 10 feet above mean sea level.

4.3 Surface Water

The nearest surface water feature is Wreck Pond, located along the southern property line.

4.4 Wetlands

There are wetlands located along the southern property line of the site and are associated with Wreck Pond.

4.5 Geology and Hydrogeology

The site is located within the Atlantic Coastal Plain Physiographic Province of New Jersey. According to the New Jersey Geological Survey, the Tertiary-aged Vincentown Formation outcrops in the site area. In general, discrete sand and silty clays characterize the Vincentown. In many areas, the Vincentown is typically included as part of the Composite Confining Bed, a sequence of units characterized by low hydraulic conductivity /

permeability, separating the unconfined Kirkwood-Cohansey aquifer system from older, undifferentiated, lower confined aquifer units.

In the site are, the Vincentown does not serve as a source of groundwater withdrawal. Aquifer recharge to this area is primarily from precipitation infiltrating outcrops. Near surface water bodies, minor amounts of recharge may occur through channel leakage into the underlying deposits

V. CONCLUSIONS, OPINIONS AND RECOMMENDATIONS

5.1 Conclusions

A "Preliminary Assessment" has been conducted on the property in question in conformance with the scope and limitations of the NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E) Sections 3.1 and 3.2. Any exceptions to, or deletions, from this practice are described in Section 2.2 of this report.

This Preliminary Assessment has revealed five Areas of Concern on the subject property.

AOC #1: One (1) 3,000-gallon aboveground storage tank in the central portion of the site appears to be in excellent working condition and shows no signs of spillage or leakage.

AOC #2: Former 1,000-gallon diesel UST, 1,000-gallon leaded UST, 2,000-gallon diesel UST, 1,000-gallon diesel UST and 2,000-gallon unleaded UST have been properly closed and removed. In the NJDEP letter dated August 1, 2000 a "No Further Action" was granted by the NJDEP for the UST's. The source of elevated lead concentrations is to be identified in this PA.

AOC #3: Incinerator found in the southwest corner of the site has closed and inoperable since approximately 1972. There seems to be no visible contamination of the surrounding area caused by the incinerator. The incinerator ash was spread about the property as evident in the soil borings performed in connection with the former 1,000-gallon leaded UST and is supported by the Fire Sanborn Map. This ash may be the source of the lead exceedences in the March 1, 2000 soil samples.

AOC #4: The sand and rock salt bay in the southwest corner of the site is well contained and covered to prevent displacement and water runoff.

AOC #5: Recycling dumpsters located throughout the site. The dumpsters are part of the Borough's resident recycling facility. All the dumpsters appear to be in good condition and do not contain any hazardous materials. The dumpsters hold paper products, wood, household appliances, plastics, glass and cans. All residential hazardous materials are collected by Monmouth County at its facility in Tinton falls.

5.2 Opinions

Based on the findings of this Preliminary Assessment, it is our opinion that there are five Areas of Concern associated with the prior and current uses of this subject property. Four of the five AOCs (AOC 1, AOC 2, AOC 4 and AOC 5) are either contaminant free or do not warrant further investigation. The elevated lead concentrations associated with AOC 3 appear to be related to the incinerator ash fill, which was spread throughout the lowland area

along Fifth Avenue. Evidence of filling is illustrated on the Fire Sanborn Maps, which show tidal lowlands (North Branch of Wreck Pond), in the present location of the incinerator on the 1905 map and no tidal lowlands in the 1950 map. In Addition, ash fill was observed during well installation, soil boring advancement and soil excavation activities. The fill was generally observed from 3.5 feet to 8.0 feet below grade.

Soil results from a subsurface investigation performed on March 1, 2000 reported lead ranging in concentration from 4.8 mg/kg to 8,410 mg/kg (residential standard = 400 mg/kg) at SB-6B. The highest lead concentration was from a soil sample collected just south (towards Wreck Pond) from the public works yard entrance located on 5th and Atlantic Avenues. The two samples with the highest lead concentrations were further analyzed for TCLP Metals, to determine if lead or any other metal is leaching from the incinerator ash fill. Resultant lead concentrations were reported at 0.83 mg/kg and 55.3 mg/kg at SB-1B and SB-6B, respectively, well below the residential soil cleanup criterion of 400 mg/kg. No other metal concentration was reported above the most stringent soil cleanup criteria.

Based on the TCLP analytical results and groundwater analytical results for lead, it appears that the elevated total lead concentrations detected in the ash fill are not leaching from the ash fill into the groundwater. Lead has a limited ability to dissolve in groundwater and therefore a limited ability to travel within the soil and groundwater.This is substantiated by the March 1, 2000 groundwater sampling results in which lead was detected below the NJDEP GWQCIIA at monitoring well MW-1. Resultant groundwater analysis reported lead at 4.6 ug/L (micrograms per liter), which is below the groundwater quality standard of 10 ug/L. All other compounds tested were detected below the respective groundwater quality standards.

In summary, the lead concentrations are most likely a result of historic fill due to past operations conducted at this site. It appears that the site was formerly marshland, which was filled in with incinerator ash from approximately eight feet below grade to approximately three feet below grade. The ash layer is sandwiched or contained between two to three feet of clean sand above the ash layer and by a meadow mat consisting of dense dark gray clay below the ash layer. It appears that the sand above the ash fill and the meadow mat below the ash fill are preventing any lead migration.

We believe that although lead is detected in the buried ash from the incinerator it has not leached into the groundwater. It is our opinion that the ash layer is contained and there is no evidence of lead migration, further investigation, action and/or remediation are not required since there is no risk to the environment of human health.

5.3 Recommendations

It is the client's choice to select the next level of inquiry based on his or her ownership, management, secured lending or fiduciary needs and responsibilities or any applicable requirements of law or regulations and the level of risk presented by the findings.

Based on the findings and conclusions listed above, areas of potential further inquiry and/or action is not recommended.

VI. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

JOHN E. VANDERSLICE, P.G.
Principal Hydrogeologist

PROFESSIONAL PROFILE:

B.S. Geology, Stockton State College, Pomona, NJ
M.S. Candidate Geology, Rutgers University, Newark, NJ

PROFESSIONAL AFFILIATIONS:

National Ground Water Association
Association of Engineering Geologists
Geological Association of New Jersey

PROFESSIONAL CERTIFICATIONS:

NJDEP Certified Subsurface Evaluator - License # 0012601
Professional Geologist License - State of Pennsylvania # PG-002915-G
NJDEP N-2 Industrial Wastewater Treatment Systems Operator License # 0008646
OSHA 40-hour Hazardous Waste Site Health & Safety Training
16- Hour Confined Space Training

EXPERIENCE:

Mr. Vanderslice has over ten years of experience in the field of environmental consulting. Since joining T&M, he has supervised and directed over 30 environmental projects from preliminary assessments and site investigations to corrective action. He has prepared Remedial Action Workplans proposing natural attenuation and has established Classification Exception Areas.

Prior to joining T&M Associates, Mr. Vanderslice served as a Project and Group Manager for Land Tech Remedial, Inc. where he worked for 2.5 years. His major responsibilities included:

Completion of Phase I, Phase II investigations and reports. Management of active remediation and intrinsic bioremediation projects for major oil companies. Completion of tenant compliance audits at industrial facilities for ISRA compliance. Management of field activities and preparation of tank excavation reports, Site Investigation Reports, Remedial Investigation Workplans, Remedial Action Workplans, and other reports for both clients and regulatory agencies. Coordination, preparation and review of cost proposals for sites involving soil and groundwater contamination. Preparation of scope of work proposals, budget tracking, contract negotiation, and project scheduling for remedial investigations. Field inspections to ensure all activities performed by contractors were in accordance with all applicable federal and state regulations. Oversight of the operation and maintenance of remedial treatment systems including groundwater pump and treat systems, soil vapor extraction, bioventing systems, and sparging systems. Supervised the installation of monitor wells, recovery wells, soil borings, interceptor trenches. Conducted aquifer testing (i.e., slug tests and long-term pumping tests), groundwater and soil sampling, soil vapor extraction/sparge testing. Provided contractor oversight on tank excavations and removals.

Mr. Vanderslice has also worked with Groundwater Environmental Services, Inc. in Wall, New Jersey, DUNN Geoscience of Parsippany, New Jersey, and Science Applications International Corporation in Paramus, New Jersey.

TIMMIE PERRY, JR.

Environmental Technician

EDUCATION
College of New Jersey,
Mathematics

YEARS IN THE INDUSTRY: 2

AREA OF EXPERTISE:
Hazardous Waste Remediation,
AutoCAD Drafting

SUMMARY OF QUALIFICATIONS

Since Joining T&M, Mr. Perry has supervised and directed over 10 environmental projects from preliminary assessments and site investigations to corrective action at publicly owned sites to brownfield properties. He has prepared Remedial Action Workplans proposing natural attenuation and has established Classification Exception Areas. He has provided inspection and contract administration for underground storage tank removal (UST) and aboveground storage tank (AST) installation.

Mr. Perry has prepared AutoCAD drawings for construction details, as-builts and site plans related to a variety of projects, including civil, mechanical and electrical designs.

PROFESSIONAL EXPERIENCE

Schering Plough – Manati and Las Piedras, Puerto Rico.

- Responsibilities included field management and documentation of existing utility supply systems, HVAC and process and packaging systems for the creation of AutoCAD drawings. All tasks performed were in support of Schering's on-going efforts for the validation of both locations.

Bernards Township, Landfill Facility

- Preparation of AutoCAD drawings for construction of piping and sampling systems
- Preparation of AutoCAD for construction details
- Site investigation

Asbury Park Department of Public Works UST Removal

- Preparation of AutoCAD site plans and gradient maps
- Site Inspection
- Groundwater sampling
- Site survey
- Preparation of site inspection reports and remedial investigation reports

Jackson Board of Education Bus Maintenance Facility

- Preparation of AutoCAD site plans and gradient maps
- Review of contract quantities
- Preparation of pay estimates and change orders
- Preparation of remedial investigation reports
- Groundwater sampling

PROFESSIONAL EXPERIENCE (CON'T)

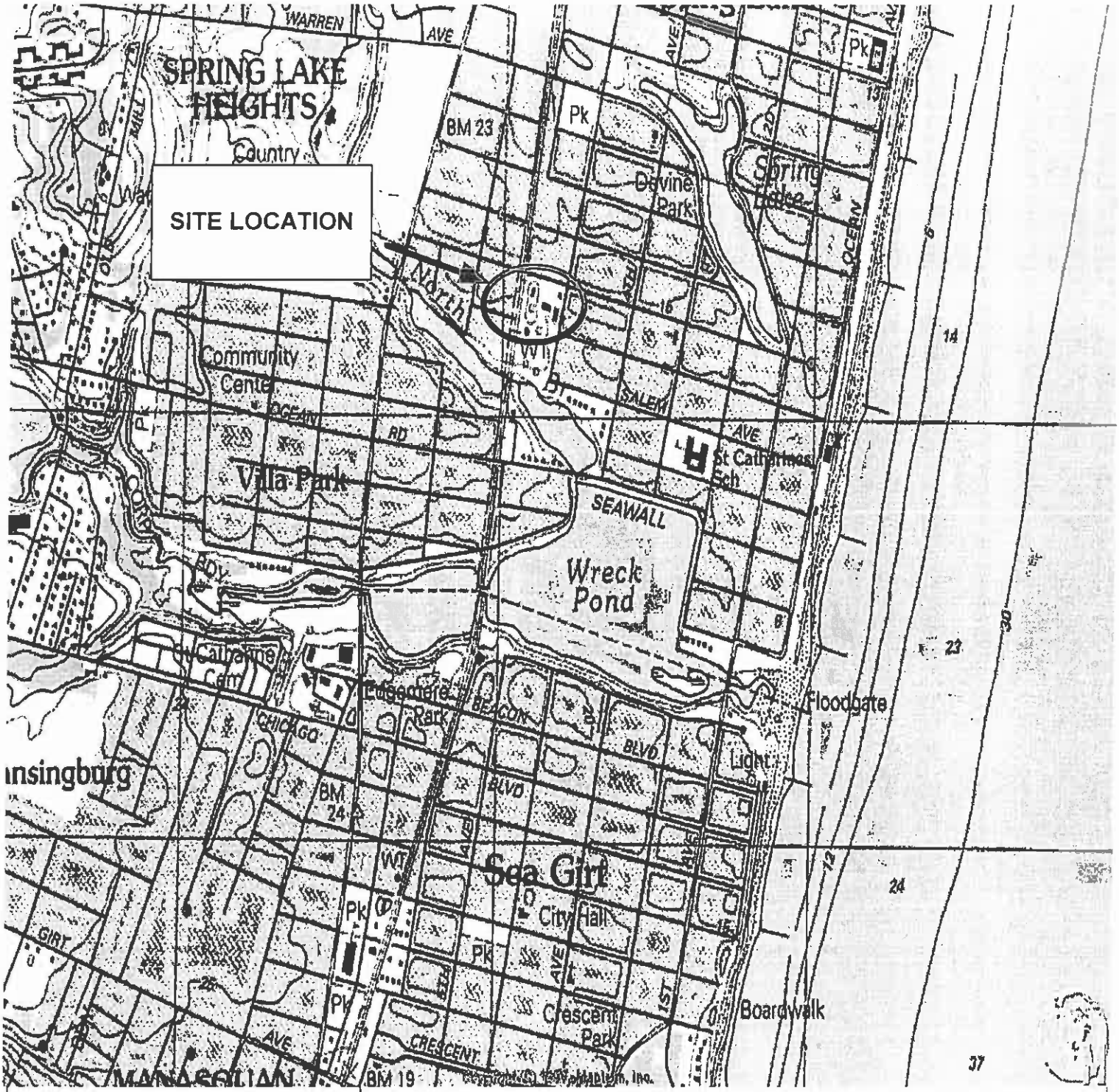
Middlesex, Joseph Medwick Park

- Preparation of AutoCAD site plans and as-builts
- Site Inspection
- Review of contract quantities
- Preparation of pay estimates and change orders
- Preparation of site inspection reports and remedial investigation reports

Garden State Parkway Interchange 69

- Septic system and potable well design

FIGURES



USGS QUADRANGLE

TM ASSOCIATES

ELEVEN TINDALL ROAD
MIDDLETOWN, NEW JERSEY 07748
PHONE:(732) 671-6400 FAX (732) 671-7365

BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
5TH AND MONMOUTH AVENUES

0 2000 4000

SCALE IN FEET

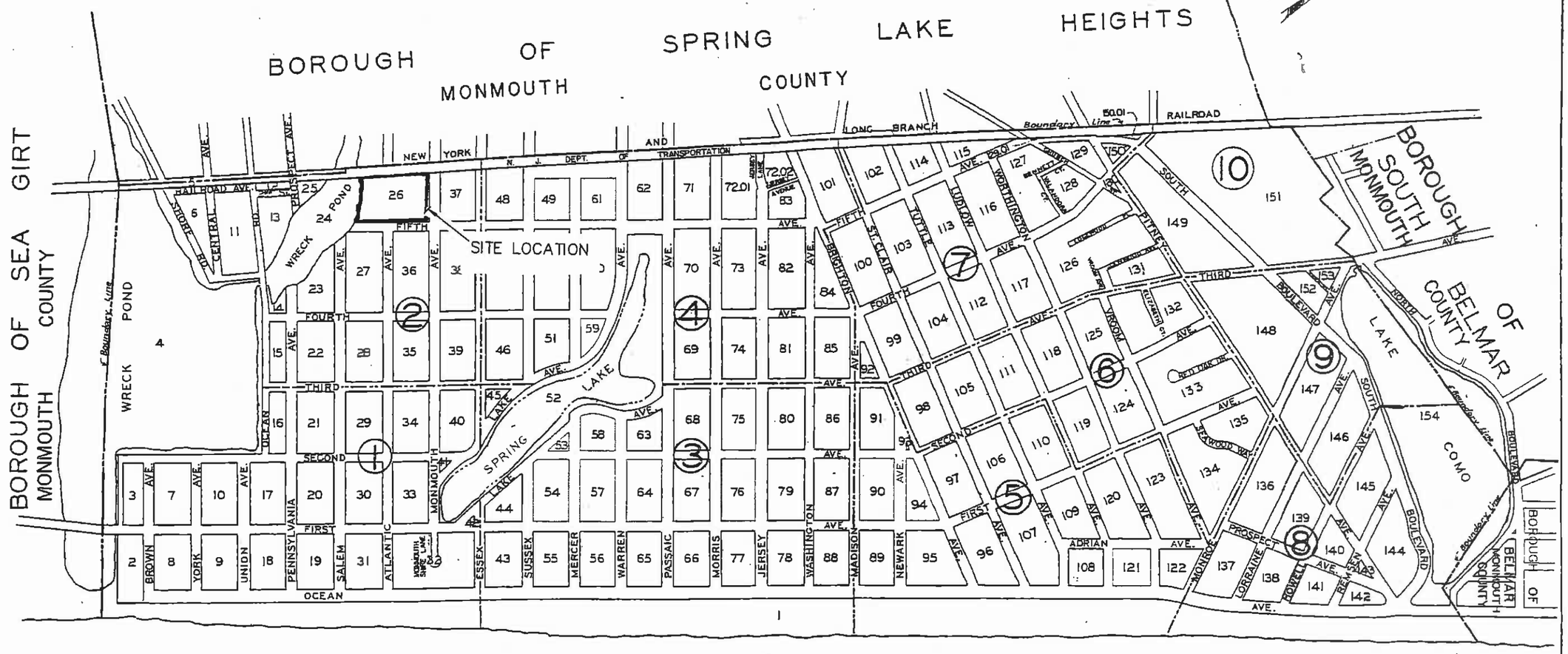
SOURCE: USGS - ASBURY PARK, NJ QUADRANGLE (1981)

N

APRIL 2002	SPLK-00061	FIGURE 1

DATE	NAME	LIC. NO.
DEC. 1966	ROBERT L. FARRY	13444
SEPT. 22, 1967	ROBERT L. FARRY	13444
MAY 1968	BIRDSALL ENGINEERING, INC. ROBERT L. FARRY P.L.S.	13444
DEC. 1990	BIRDSALL ENGINEERING, INC. ROBERT L. FARRY P.L.S.	13444
DEC. 1991	BIRDSALL ENGINEERING, INC. ROBERT L. FARRY P.L.S.	13444
DEC. 1995	BIRDSALL ENGINEERING, INC. ROBERT L. FARRY P.L.S.	13444

KEY MAP



ATLANTIC

OCEAN

LEGEND

TAXING BLOCK NUMBER	3
TAXING LOT NUMBER	3
ORIGINAL LOT NUMBER	3
ORIGINAL TRACT NAME	CARTER
ADJOINING SHEET NUMBER	(3)
BOUNDARY OF LANDS OF A SINGLE OWNER	———
TAXING & ORIGINAL LOT LINES	———
ORIGINAL BLOCK NUMBER	(33)
ORIGINAL SUBDIVISION LOT LINES WHERE LAND HAS BEEN RESUBDIVIDED	———

TAX MAP

BOROUGH OF SPRING LAKE
MONMOUTH COUNTY, NEW JERSEY

REVISED TO SHOW CONDITIONS AS OF MAY 1989.

THIS TAX MAP SUPERSEDES ALL PREVIOUS TAX MAPS.

THE AREAS, BOUNDARIES AND DIMENSIONS ON THIS MAP ARE TO BE USED FOR ASSESMENT PURPOSES ONLY.

REVISED BY THE BIRDSALL CORP. JUNE 10, 1982
ROBERT L. FARRY L.S. 13444

SCALE IN FEET
0 100 400 2000
50 200 1000

I HEREBY CERTIFY THAT THIS MAP HAS BEEN REVISED UNDER MY IMMEDIATE SUPERVISION AND COMPLIES WITH THE LAWS OF THE STATE OF NEW JERSEY.
Robert L. Farry
ROBERT L. FARRY L.S. Lic. Nº 13444

NEW JERSEY DEPARTMENT OF THE TREASURY
DIVISION OF TAXATION
LOCAL PROPERTY AND PUBLIC UTILITY BRANCH
APPROVED AS A TAX MAP PURSUANT TO THE PROVISIONS OF CHAPTER 73, LAWS OF 1918 FOR THE DIRECTOR, DIVISION OF TAXATION
BY _____ P.E. & L.S.
SUPERINTENDENT
DATE MAY 19 1992 SERIAL NO. 886

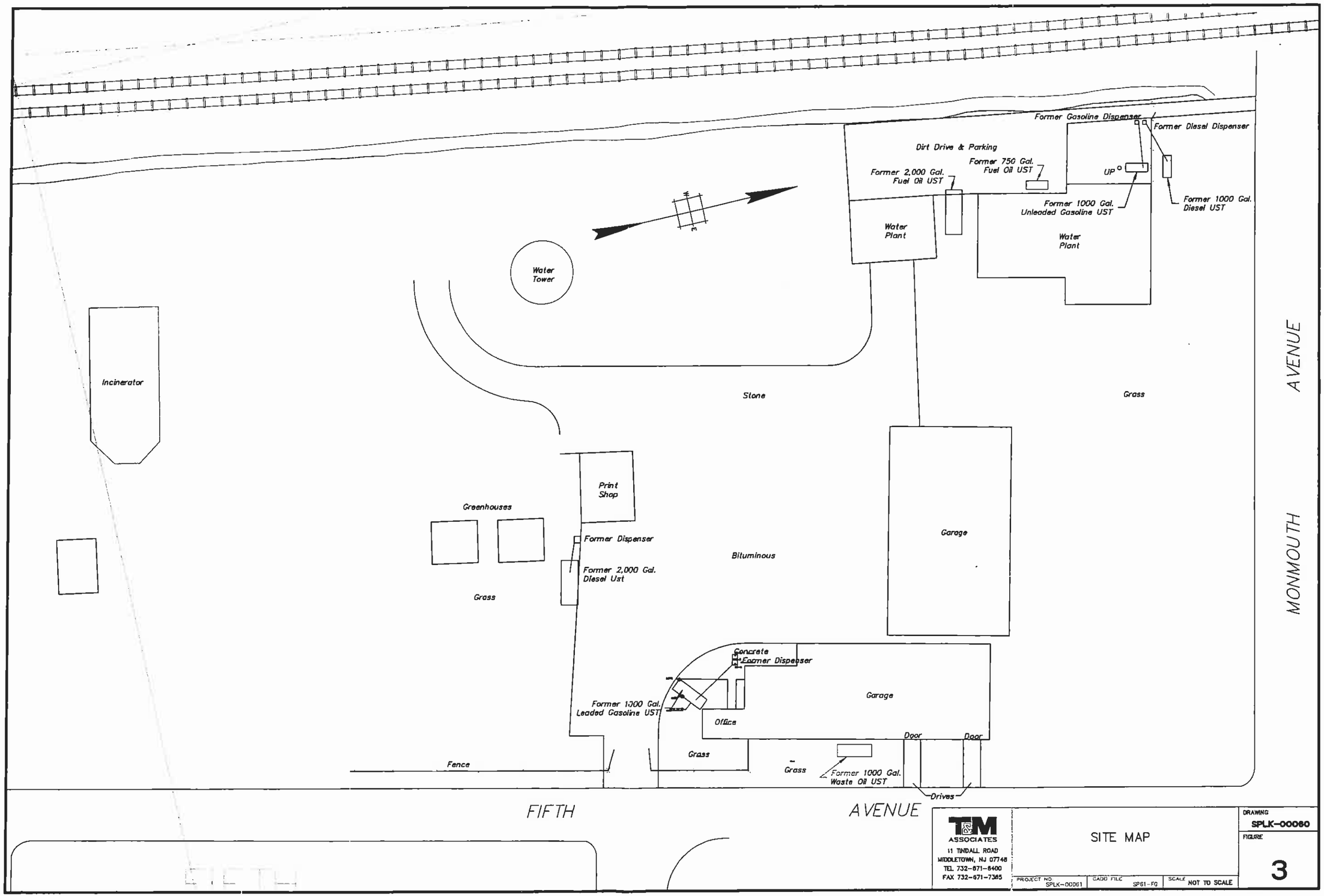
TAX MAP
BOROUGH OF SPRING LAKE
MONMOUTH COUNTY, N. J.
SCALE 1" = 400' MARCH 5, 1982
THE BIRDSALL CORPORATION
1700 "F" STREET, SOUTH BELMAR, N.J.
WILLIAM T. BIRDSALL P. E.
BOROUGH ENGINEER, Lic.Nº 25535
ROBERT L. FARRY L. S.
Lic. Nº 13444

NEW JERSEY DEPARTMENT OF THE TREASURY
APPROVED AS A TAX MAP PURSUANT TO THE PROVISIONS OF CHAPTER 175 LAWS OF 1913
BY _____ SUPERINTENDENT
DATE _____ SERIAL NO. 188

T&M ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400

TAX MAP

DRAWING SPLK-00080
FIGURE 2



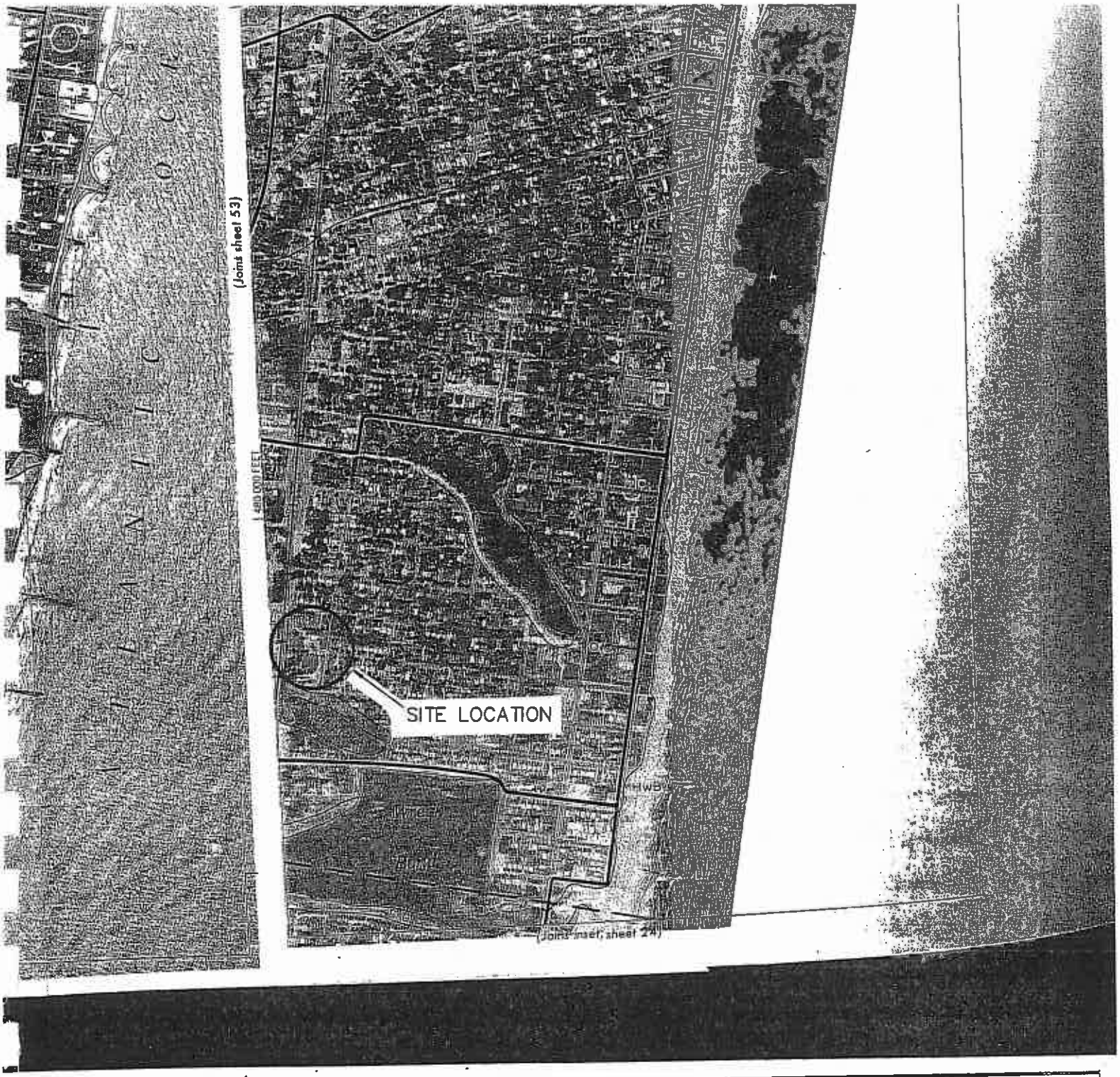
T&M ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

SITE MAP

PROJECT NO	CADD FILE	SCALE
SPLK-00061	SP61-FG	NOT TO SCALE

DRAWING
SPLK-00080

FIGURE
3



TM ASSOCIATES ELEVEN TINDALL ROAD MIDDLETOWN, NEW JERSEY 07748 PHONE:(732) 671-6400 FAX (732) 671-7365	**SOIL MAP** **BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS** **5TH AND MONMOUTH AVENUES**		
0 2000 4000 SCALE IN FEET	SOURCE: USGS - ASBURY PARK, NJ QUADRANGLE (1981)		N
	MAY 2002	SPLK-00061	FIGURE 4

Appendix A
Site Reconnaissance Checklist

Physical Findings Only

Client Name: *Borough of Spring Lake*

Project No: *SPLK-00061* Contact: *Mr. RobertWeinmiller* Phone: *(732) 449-7598*

Property or Building Name and Address: *Monmouth and Fifth Avenues Borough of Spring Lake, Monmouth County, New Jersey County, New Jersey* Tax Lot(s): *26* Block: *2*
Acreage: *6.97* Basement Y/N: *No* Stories: *2* Sq. Ft: *304,000*

General Property Description: *Department of Public Works Yard and Water works Facility*

Neighborhood: *Residential*

Site Inspector:
Sign Name Fred H. McFalls for Site Visit Date: *May 16, 2002*

Print Name: *Timmie Perry* Phone: *(732) 671-6400*

SUMMARY OF THE PHASE I ESA SITE CHECKLIST
(ASTM PRACTICE E-1527-97)

These findings are based on the discovery of readily observable physical evidence during an on-site property reconnaissance and assessment of adjoining properties from their perimeter. Provide an explanation for any "yes" answer on Line #36, Page 4 or attachments.

	Recognized or Suspect Environmental Conditions (Based on Existing Physical Evidence)	Subject Property		Adjoining Properties(*)	
		Yes	No	Yes	No
1.	An existing industrial site	[ ]	[X]	[]	[X]

Note: (*) ***The responses to the adjoining properties reconnaissance are limited to the extent of the visibility of the properties from their public perimeters, therefore, limiting the comprehensiveness of the response.***

(Continued)

	Recognized or Suspect Environmental Conditions (Based on Existing Physical Evidence)	Subject Property		Adjoining Properties(*)	
		Yes	No	Yes	No
2.	A known or suspect past industrial site	[ ]	[X]	[ ]	[X]
3.	An existing potentially hazardous commercial activity; i.e.,	[X]	[ ]	[ ]	[X]
4.	A known or suspect past commercial activity; i.e.,	[ ]	[X]	[ ]	[X]
5.	Discarded car batteries or chemicals in greater than 5-gallon containers or 50 gallons in aggregate	[ ]	[X]	[ ]	[X]
6.	Current use or storage of tank trucks, drums or other containers of gas, liquids or powders	[X]	[ ]	[ ]	[X]
7.	Signs of fill dirt	[X]	[ ]	[ ]	[X]
8.	Waste piles, pits or lagoons	[ ]	[X]	[ ]	[X]
9.	Stained soil or pavement greater than 1 meter in diameter	[ ]	[X]	[ ]	[X]

Note: (*) ***The responses to the adjoining properties reconnaissance are limited to the extent of the visibility of the properties from their public perimeters, therefore, limiting the comprehensiveness of the response.***

(Continued)

	Recognized or Suspect Environmental Conditions (Based on Existing Physical Evidence)	Subject Property		Adjoining Properties(*)		
		Yes	No	Yes	No	Unk
10A.	Underground storage tanks	[ ]	[X]	[ ]	[X]	[ ]
10B.	Any records available on tank testing, leaks, spills, permit, age, tank protection or leak detection	[X]	[ ]	[ ]	[X]	
11A.	Aboveground storage tanks	[X]	[ ]	[ ]	[X]	
11B.	Leaking or spills around above ground storage tanks	[ ]	[X]	[ ]	[X]	
12A.	Stained floors, walls, drains	[ ]	[X]	N/A		
12B.	Unidentified suspect odors	[ ]	[X]	[ ]	[X]	
13A.	Is the site served by private well	[ ]	[X]	N/A		
13B.	If yes, contact Health Department	[ ]	N/A	N/A		
13C.	Groundwater monitoring well on site	[X]	[ ]	[ ]	[X]	
14.	Environmental liens		N/A	N/A		
15.	Environmental violation notices	[ ]	N/A	N/A		
16.	Prior study hazard findings	[X]	[ ]	N/A		
17.	Hazardous release lawsuits	[ ]	N/A	N/A		
18.	Surface discharges of waste water	[ ]	[X]	[ ]	[X]	
19.	Past waste dumping evidence	[X]	[ ]	[ ]	[X]	
20.	Leaking (or non-accessible) hydraulic or electrical equipment (suspect PCB's) or PCB labeled equipment	[ ]	[X]	[ ]	[X]	

Note: (*) ***The responses to the adjoining properties reconnaissance are limited to the extent of the visibility of the properties from their public perimeters, therefore, limiting the comprehensiveness of the response.***

(Continued)

	Recognized or Suspect Environmental Conditions (Based on Existing Physical Evidence)	Subject Property		Adjoining Properties(*)	
		Yes	No	Yes	No
21.	Distressed vegetation	[ ]	[X]	[ ]	[X]
22.	Oil sheens on water (puddles, streams, ponds)	[ ]	[X]	[ ]	[X]
23.	Obvious streams, ponds, or swamps and potential wetland fringes	[X]	[]	[ ]	[X]
24.	Active or fallow agricultural land	[ ]	[X]	[ ]	N/A
25.	Is the site served by a septic system	[ ]	[X]	[ ]	[X]
26.	Is the site served by an oil furnace	[ ]	[X]	N/A	
27.	Other Abandoned Incinerator	[X]	[ ]	N/A	
28.	Potential hazard photographs	[X]	[ ]	[ ]	[X]
29.	Known or approximate age of Building(s)	OVER 100 YEARS		N/A	
Optional Testing (If Authorized)		**Sample Taken**			
30.	Drinking water lead check	[ ]	[X]	N/A	
31.	Lead paint check (built prior to 1978)	[ ]	[X]	N/A	
32.	Friable asbestos check (built prior to 1980)	[ ]	[X]	N/A	
33.	Radon check	[ ]	[X]	N/A	
34.	Stained soil check	[ ]	[X]	N/A	
35.	Soil samples	[]	[X]	N/A	

Note: (*) ***The responses to the adjoining properties reconnaissance are limited to the extent of the visibility of the properties from their public perimeters, therefore, limiting the comprehensiveness of the response.***

(Continued)

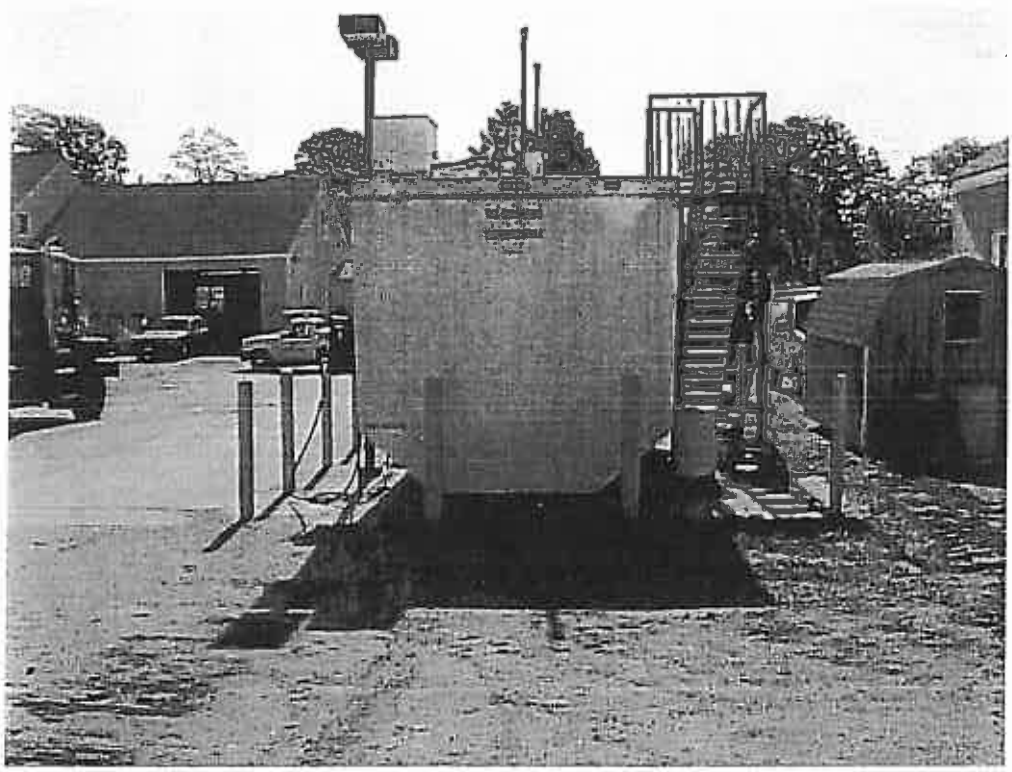
36. DESCRIPTION OF FINDINGS
Add attachments as necessary and list in numerical order.

13A. All the water on site is served from an on site municipal supply well.

19. Past waste dumping is the ash from the former incinerator. This was discovered in soil borings from the March 1, 2000 soil sampling event.

35. Soil samples were collected during the March 1, 2000 sampling event. No samples have been collected since.

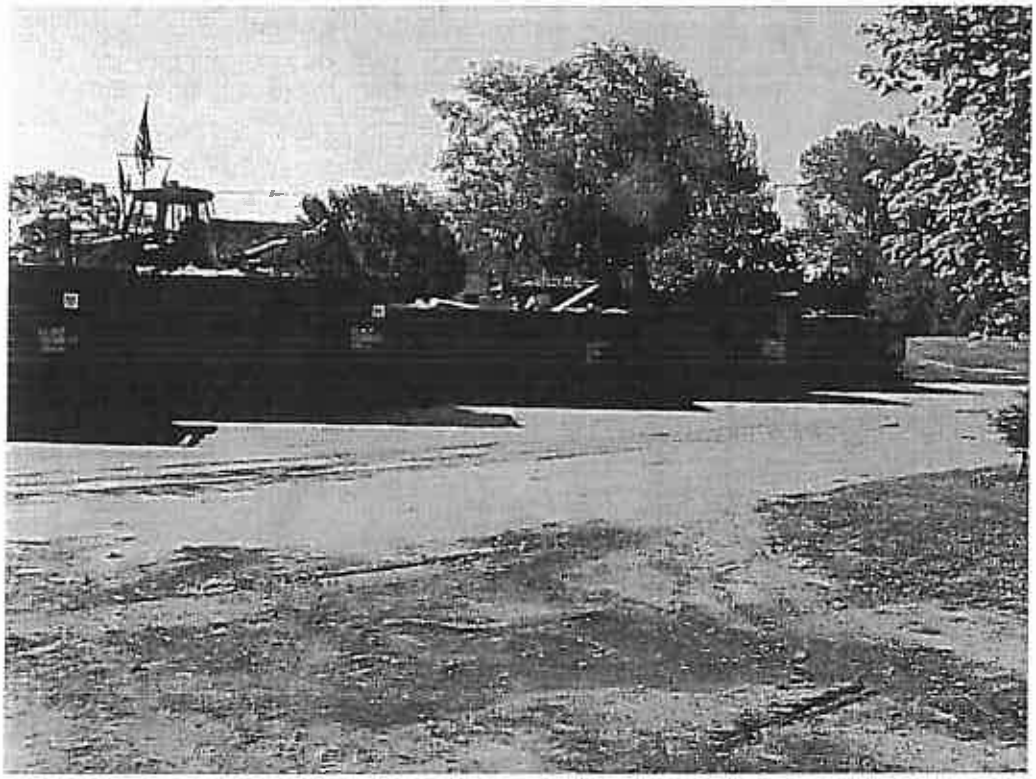
Appendix B
Site Inspection Photographs



3,000 GALLON ABOVEGROUND FUEL TANK

STOCKPILE OF SAND AND ROCK SALT

INCINERATOR BUILDING



RECYCLING DUMPSTERS

Appendix C
Standard Environmental Record Search

The EDR Radius Map™ Report

Department of Public Works
Fifth Avenue/Monmouth Avenue
Springlake, NJ 07762

Inquiry Number: 0740421.3r

March 01, 2002

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FDRM-DJV

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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	5
Orphan Summary	28
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

FIFTH AVENUE/MONMOUTH AVENUE
SPRINGLAKE, NJ 07762

COORDINATES

Latitude (North):	40.146600 - 40° 8' 47.8"
Longitude (West):	74.035700 - 74° 2' 8.5"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	582138.9
UTM Y (Meters):	4444264.0
State Plane X (Feet):	2176395.8
State Plane Y (Feet):	478968.0

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2440074-B1 ASBURY PARK, NJ
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

Proposed NPL	Proposed National Priority List Sites
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRIS-TSD	Resource Conservation and Recovery Information System
RCRIS-SQG	Resource Conservation and Recovery Information System
ERNS	Emergency Response Notification System

STATE ASTM STANDARD

SWF/LF	Solid Waste Facility Directory

FEDERAL ASTM SUPPLEMENTAL

Delisted NPL	National Priority List Deletions

EXECUTIVE SUMMARY

FINDS..... Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

NJ MAJOR FACILITIES..... List of Major Facilities
NJ Spills..... Spills
NJ Release..... Hazardous Material Incident Database
NJ PF..... Publicly Funded Cleanups Site Status Report
CHROME..... Chromate Chemical Production Waste Sites
BROWNFIELDS..... Brownfields Database

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 01/29/2002 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WALDICK AEROSPACE DEVICES, INC	***2121 ROUTE 35***	***1/2 - 1 W***	***12***	***21***

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SPRING LAKE HEIGHTS BOROUGH	***521 ATLANTIC AVE***	***0 - 1/8 WSW***	***A1***	***5***

STATE ASTM STANDARD

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection & Energy's Site Status Report.

A review of the SHWS list, as provided by EDR, has revealed that there are 7 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SPRING LAKE DEPARTMENT OF PUBL	MONMOUTH / 5TH AVES	0 - 1/8 ENE	3	8
SPRING LAKE HEIGHTS DEPT OF PU	555 ATLANTIC AVE	0 - 1/8 W	A4	8
ISOLANTITE MANUFACTURING CO	***337 WARREN AVE***	***1/4 - 1/2 NE***	***8***	***13***
EXXON SERVICE STATION SPRING L	RTE 71 / WARREN AVE	1/4 - 1/2 NNW	9	17
BROWNS AUTO SHOP	***HWY 71 LUDLOW AVE***	***1/2 - 1 N***	***10***	***17***
SPRING LAKE BD OF EDUCATION	***411 TUTTLE AVE***	***1/2 - 1 NNE***	***11***	***20***
WALDICK AEROSPACE DEVICES, INC	***2121 ROUTE 35***	***1/2 - 1 W***	***12***	***21***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection & Energy's Incident Report.

A review of the LUST list, as provided by EDR, and dated 01/04/2002 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
416 MERCER AVE PROJECT	416 MRECER AVE	1/4 - 1/2 NE	7	12

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection & Energy's UST Data.

A review of the UST list, as provided by EDR, and dated 09/15/1999 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
PUBLIC WORKS WATER TREATMENT P	FIFTH-ATLANTIC AVES	0 - 1/8 ESE	2	5
BOROUGH OF SPRING LAKE BORO YA	555 ATLANTIC AVE	0 - 1/8 W	5	9
SPRING LAKE PARK APARTMENTS	563 ESSEX AVE.	1/8 - 1/4 N	6	11

FEDERAL ASTM SUPPLEMENTAL

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WALDICK AEROSPACE DEVICES, INC	*2121 ROUTE 35*	*1/2 - 1 W*	*12*	*21*

RODS: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, has revealed that there is 1 ROD site within approximately 1 mile of the target property.

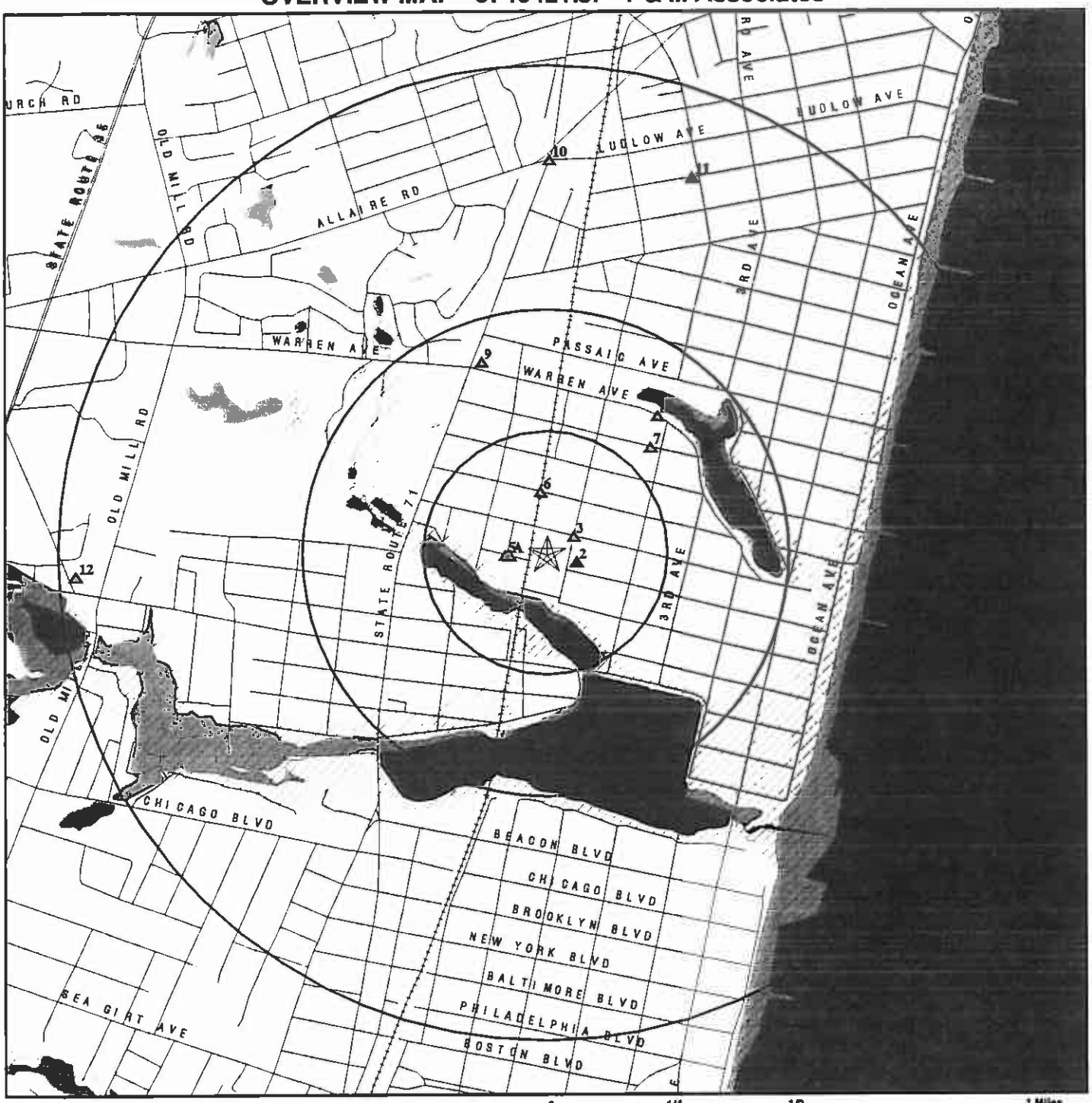
Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WALDICK AEROSPACE DEVICES, INC	*2121 ROUTE 35*	*1/2 - 1 W*	*12*	*21*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
SUN CLEANERS	CERCLIS
SEA GIRT GULF	LUST
BROOKSIDE SCHOOL	LUST
SUNOCO SERVICE STATION #0007-7545	LUST
BROWN'S AUTO SHOP	LUST
MOBIL S/S #15-K5M	LUST
GETTY S/S #56113	LUST
SPRING LAKE HEIGHTS SCHOOL	LUST
EMPTY LOT/FORMER SERVICE STATION	LUST
JOB LOT	LUST
EXXON S/S #3-7044	LUST
SPRING LAKE HEIGHTS MUNICPAL GARAGE	LUST
SAINT CATHARINE'S SCHOOL	LUST
SMRA PITNEY AVE.	UST
12K5M	UST
WALL AMOCO	RCRIS-SQG, FINDS
GETTY PETROLEUM CORP 56113	RCRIS-SQG, FINDS
2004 ROUTE 71	BROWNFIELDS

OVERVIEW MAP - 0740421.3r - T & M Associates



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

Coal Gasification Sites

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

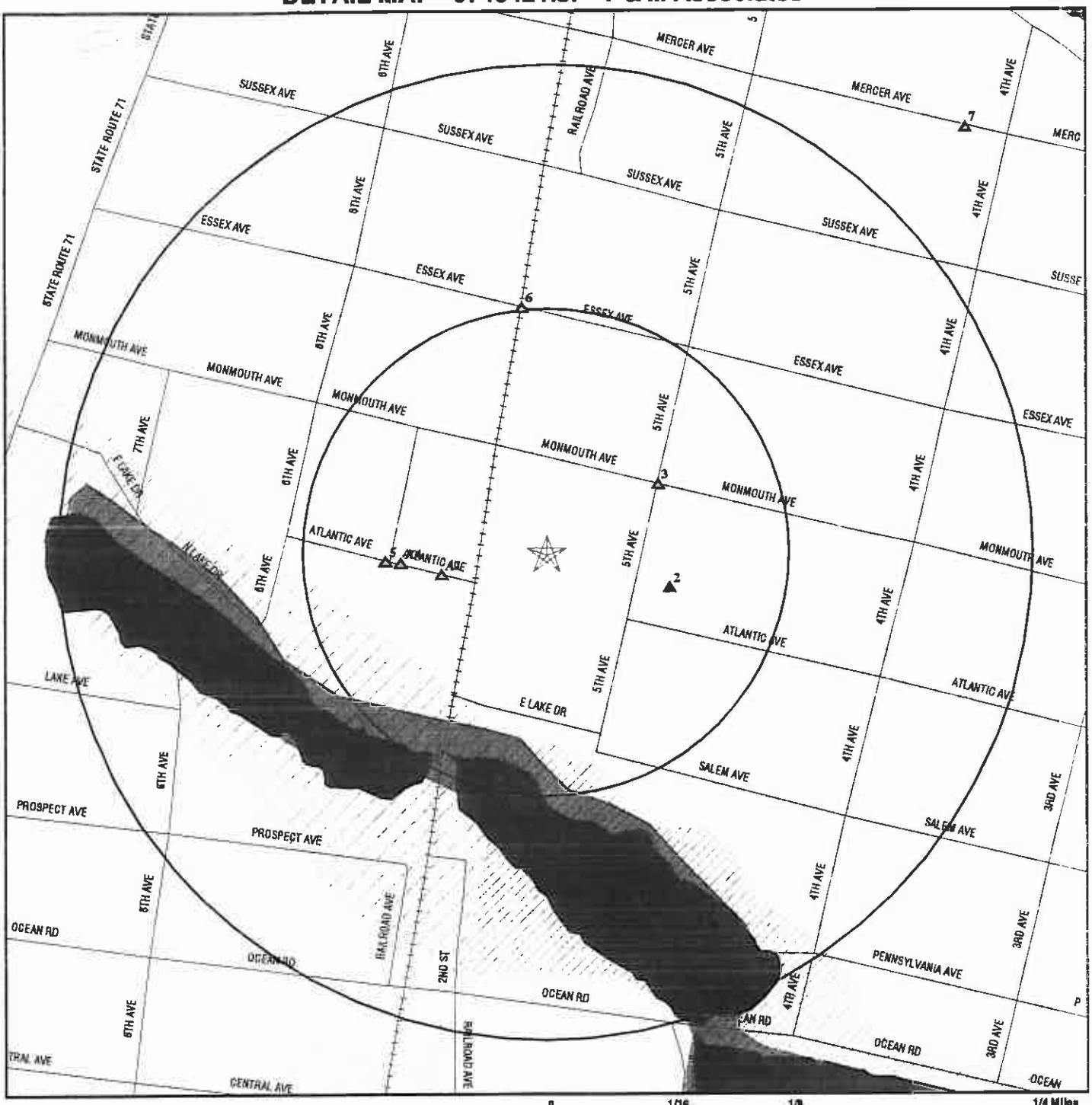
100-year flood zone

500-year flood zone

Wetlands

TARGET PROPERTY:	Department of Public Works	CUSTOMER:	T & M Associates
ADDRESS:	Fifth Avenue/Monmouth Avenue	CONTACT:	Timmie Perry
CITY/STATE/ZIP:	Springlake NJ 07762	INQUIRY #:	0740421.3r
LAT/LONG:	40.1466 / 74.0357	DATE:	March 01, 2002 10:07 am

DETAIL MAP - 0740421.3r - T & M Associates



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites

- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Wetlands

TARGET PROPERTY:	Department of Public Works	CUSTOMER:	T & M Associates
ADDRESS:	Fifth Avenue/Monmouth Avenue	CONTACT:	Timmie Perry
CITY/STATE/ZIP:	Springlake NJ 07762	INQUIRY #:	0740421.3r
LAT/LONG:	40.1466 / 74.0357	DATE:	March 01, 2002 10:07 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	0	0	0	1	NR	1
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	1	0	NR	NR	NR	1
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
State Haz. Waste		1.000	2	0	2	3	NR	7
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	1	NR	NR	1
UST		0.250	2	1	NR	NR	NR	3
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	1	NR	1
ROD		1.000	0	0	0	1	NR	1
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
NJ Major Facilities		0.500	0	0	0	NR	NR	0
NJ Spills		TP	NR	NR	NR	NR	NR	0
NJ Release		TP	NR	NR	NR	NR	NR	0
NJ PF		TP	NR	NR	NR	NR	NR	0
CHROME		TP	NR	NR	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY HISTORICAL DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1
WSW
< 1/8
289
Higher

SPRING LAKE HEIGHTS BOROUGH
521 ATLANTIC AVE
SPRING LAKE, NJ 07762

FINDS **1000256755**
RCRIS-LQG **NJD981873342**

Site 1 of 2 in cluster A

RCRIS:
Owner: SPRING LAKE HEIGHTS
(212) 555-1212

Contact: FRANK WALTON
(732) 449-5433

Record Date: 12/19/1986
Classification: Large Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

2
ESE
< 1/8
346
Higher

PUBLIC WORKS WATER TREATMENT PLA
FIFTH-ATLANTIC AVES
SPRING LAKE, NJ 07762

UST **U000359779**
N/A

PUBLIC WORKS WATER TREATMENT PLA (Continued) **U000359779**

UST:

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/74 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	4.00	Owner Tank ID:	E5
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH OF SPRING LAKE		
Owner Address:	FIFTH-WARREN AVES SPRING LAKE, NJ 07762		
Tank Capacity:	1000.00 Gallons		
Tank Contents:	A. LEADED GASOLINE		
Tank Construction:	B. CATHODICALLY PROTECTED STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	A. SINGLE WALL		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. Removed		
Date Tank Removed:	Not reported		
Date Tank Abandoned In Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/72 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	5.00	Owner Tank ID:	E6
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH OF SPRING LAKE		
Owner Address:	FIFTH-WARREN AVES SPRING LAKE, NJ 07762		
Tank Capacity:	1000.00 Gallons		
Tank Contents:	F. WASTE OIL		
Tank Construction:	B. CATHODICALLY PROTECTED STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	A. SINGLE WALL		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. Removed		
Date Tank Removed:	Not reported		
Date Tank Abandoned In Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank In Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

PUBLIC WORKS WATER TREATMENT PLA (Continued) **U000359779**

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/73 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	3.00	Owner Tank ID:	E4
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH OF SPRING LAKE		
Owner Address:	FIFTH-WARREN AVES SPRING LAKE, NJ 07762		
Tank Capacity:	1000.00 Gallons		
Tank Contents:	E. MEDIUM DIESEL FUEL (NO. 2-D)		
Tank Construction:	B. CATHODICALLY PROTECTED STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	A. SINGLE WALL		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. Removed		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/44 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	2.00	Owner Tank ID:	E2
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH OF SPRING LAKE		
Owner Address:	FIFTH-WARREN AVES SPRING LAKE, NJ 07762		
Tank Capacity:	1000.00 Gallons		
Tank Contents:	B. UNLEADED GASOLINE		
Tank Construction:	B. CATHODICALLY PROTECTED STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	A. SINGLE WALL		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. Removed		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank In Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

PUBLIC WORKS WATER TREATMENT PLA (Continued) **U000359779**

Facility ID:	0097365	Facility Status:	Inactive
Install Date:	1/1/70 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	1.00	Owner Tank ID:	E1

Operator: Not reported
Operator Address: Not reported
Owner: BOROUGH OF SPRING LAKE
Owner Address: FIFTH-WARREN AVES
SPRING LAKE, NJ 07762
Tank Capacity: 2000.00 Gallons
Tank Contents: E. MEDIUM DIESEL FUEL (NO. 2-D)
Tank Construction: B. CATHODICALLY PROTECTED STEEL
Tank Structure: A. SINGLE WALL
Pipe Contents: A. BARE STEEL
Pipe Structure: A. SINGLE WALL
Over Fill Products: No
Spill Containment Around Fill Pipe: No
Tank Status: G. Removed
Date Tank Removed: Not reported
Date Tank Abandoned in Place: Not reported
Date Tank Taken Out of Service: Not reported
Date of Tank Sale or Transfer: Not reported
Tank Closure Number: Not reported
Tank ISRA Number: Not reported
Tank in Wellhead Protection Area: Not reported
Is Facility in Compliance Rules: No

3
ENE
< 1/8
354
Higher

SPRING LAKE DEPARTMENT OF PUBLIC WORKS **SHWS** **S105008023**
MONMOUTH / 5TH AVES **N/A**
SPRING LAKE BOROUGH, NJ

SHWS:

Facility ID:	NJL800449597	Case ID:	97365
Contact:	BUST	Sub Section Code:	A

Case Status: ACTIVE
Status Date: 12/24/1998
Site Municipality: 1348
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

A4
West
< 1/8
395
Higher

SPRING LAKE HEIGHTS DEPT OF PUBLIC WORKS **SHWS** **S102875966**
555 ATLANTIC AVE **N/A**
SPRING LAKE HEIGHTS BOROUGH, NJ

Site 2 of 2 in cluster A

SHWS:

Facility ID:	NJD981873342	Case ID:	44435
Contact:	BUST	Sub Section Code:	A

Case Status: ACTIVE
Status Date: 09/29/1986
Site Municipality: 1349
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

5
West
< 1/8
437
Higher

BOROUGH OF SPRING LAKE BORO YARD
555 ATLANTIC AVE
SPRING LAKE HGTS, NJ 07762

UST | **U000355711** | **N/A**

UST:

Facility ID:	0044435	Facility Status:	Inactive
Install Date:	1/1/52 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	4.00	Owner Tank ID:	E4

Operator:	Not reported
Operator Address:	Not reported
Owner:	BOROUGH SPRING LAKE HGTS
Owner Address:	555 BRIGHTON AVE SPRING LAKE HGTS, NJ 07762
Tank Capacity:	0.00 Gallons
Tank Contents:	B. UNLEADED GASOLINE
Tank Construction:	H. OTHER: GALV A. BARE STEEL
Tank Structure:	A. SINGLE WALL
Pipe Contents:	H. OTHER
Pipe Structure:	Not reported
Over Fill Products:	No
Spill Containment Around Fill Pipe:	No
Tank Status:	G. REMOVED
Date Tank Removed:	Not reported
Date Tank Abandoned in Place:	Not reported
Date Tank Taken Out of Service:	Not reported
Date of Tank Sale or Transfer:	Not reported
Tank Closure Number:	Not reported
Tank ISRA Number:	Not reported
Tank in Wellhead Protection Area:	Not reported
Is Facility in Compliance Rules:	No

BOROUGH OF SPRING LAKE BORO YARD (Continued) U000355711

Facility ID:	0044435	Facility Status:	Inactive
Install Date:	1/1/72 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	3.00	Owner Tank ID:	E3
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH SPRING LAKE HGTS		
Owner Address:	555 BRIGHTON AVE SPRING LAKE HGTS, NJ 07762		
Tank Capacity:	0.00 Gallons		
Tank Contents:	B. UNLEADED GASOLINE		
Tank Construction:	H. OTHER: GALV A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	H. OTHER		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank In Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0044435	Facility Status:	Inactive
Install Date:	1/1/72 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	2.00	Owner Tank ID:	E2
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	BOROUGH SPRING LAKE HGTS		
Owner Address:	555 BRIGHTON AVE SPRING LAKE HGTS, NJ 07762		
Tank Capacity:	0.00 Gallons		
Tank Contents:	A. LEADED GASOLINE		
Tank Construction:	H. OTHER: GALV A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	H. OTHER		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

BOROUGH OF SPRING LAKE BORO YARD (Continued) **U000355711**

Facility ID:	0044435	Facility Status:	Inactive
Install Date:	1/1/75 0:00:00	Facility Type:	C. County/Municipal
Unique Tank ID:	1.00	Owner Tank ID:	E1

Operator:	Not reported
Operator Address:	Not reported
Owner:	BOROUGH SPRING LAKE HGTS
Owner Address:	555 BRIGHTON AVE SPRING LAKE HGTS, NJ 07762
Tank Capacity:	0.00 Gallons
Tank Contents:	D. LIGHT DIESEL FUEL (NO. 1-D)
Tank Construction:	H. OTHER: GALV A. BARE STEEL
Tank Structure:	A. SINGLE WALL
Pipe Contents:	H. OTHER
Pipe Structure:	Not reported
Over Fill Products:	No
Spill Containment Around Fill Pipe:	No
Tank Status:	G. REMOVED
Date Tank Removed:	Not reported
Date Tank Abandoned in Place:	Not reported
Date Tank Taken Out of Service:	Not reported
Date of Tank Sale or Transfer:	Not reported
Tank Closure Number:	Not reported
Tank ISRA Number:	Not reported
Tank in Wellhead Protection Area:	Not reported
Is Facility in Compliance Rules:	No

6
North
1/8-1/4
669
Higher

SPRING LAKE PARK APARTMENTS
563 ESSEX AVE.
SPRING LAKE HEIGHTS, NJ 07062

UST **U000368808**
N/A

SPRING LAKE PARK APARTMENTS (Continued) **U000368808**

UST:

Facility ID:	0272126	Facility Status:	Inactive
Install Date:	1/1/67 0:00:00	Facility Type:	F. RESIDENCE
Unique Tank ID:	2.00	Owner Tank ID:	0002
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	DAVID & MARIO PERROTTI		
Owner Address:	23 SOUTH UNION AVE. CRANFORD, NJ 07016		
Tank Capacity:	3000.00 Gallons		
Tank Contents:	H. HOME HEATING OIL (NO. 2)		
Tank Construction:	H. OTHER		
Tank Structure:	C. OTHER		
Pipe Contents:	H. OTHER		
Pipe Structure:	C. OTHER		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0272126	Facility Status:	Inactive
Install Date:	1/1/67 0:00:00	Facility Type:	F. RESIDENCE
Unique Tank ID:	1.00	Owner Tank ID:	0001
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	DAVID & MARIO PERROTTI		
Owner Address:	23 SOUTH UNION AVE. CRANFORD, NJ 07016		
Tank Capacity:	4000.00 Gallons		
Tank Contents:	H. HOME HEATING OIL (NO. 2)		
Tank Construction:	H. OTHER		
Tank Structure:	C. OTHER		
Pipe Contents:	H. OTHER		
Pipe Structure:	C. OTHER		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank in Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

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7 **416 MERCER AVE PROJECT** **LUST S104385149**
NE **416 MRECER AVE** **N/A**
1/4-1/2 **SPRING LAKE, NJ**
1616
Higher

416 MERCER AVE PROJECT (Continued) **S104385149**

LUST:

Case ID:	Not reported
Facility Status:	Case Awaiting Assignment
Facility Phone:	Not reported
Case Closed:	Not reported
UST ID:	0339050
Lead Program Assigned to Case:	Bureau of Field Operations - Initial Notice Section
TMS Number:	N00-0177
Remedial Level:	Not reported
Case Manager:	Not reported

8 NE 1/4-1/2 1921 Higher **ISOLANTITE MANUFACTURING CO** **337 WARREN AVE** **STIRLING, NJ 07980** **FINDS RCRIS-LQG NJ Spills NJ Release SHWS** **1001079406 NJR000008110**

RCRIS:

Owner: GEORGE LUMPE
(908) 647-3333

Contact: GEORGE LUMPE
(908) 647-3333

Record Date: 11/29/1995
Classification: Large Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

NY MANIFEST
Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

SHWS:

Facility ID:	NJL500016456	Case ID:	0
Contact:	BFO-IN	Sub Section Code:	C
Case Status:	NFA for an entire Site		
Status Date:	07/17/2000		
Site Municipality:	1430		
Sub Section Label:	SITES WITH CLOSED CASE(S) WITH RESTRICTIONS		
Remedial Action Type:	Restricted		
CEA/DER:	Not reported		

NJ Release:

Facility ID:	14266	Case Number:	95-9-6-1733-24
Date Received:	09/06/1995	Operator:	JIMS
Location:	Other	Nature of Incident:	Facility
Facility Phone:	Not reported	Facility Type:	Commercial
Date of Incident:	09/06/1995	Time of Incident:	13:00
Substance(s):	OIL HEATING #2		
Substance Type:	Liquid	Substance Identity:	Known
Unit:	Not reported		
Official:			
Notification:	Not reported		
Name:	Not reported		
Phone:	Not reported		

ISOLANTITE MANUFACTURING CO (Continued) **1001079406**

Date:	Not reported		
Time:	Not reported		
Description:	Not reported		
Notify:	Not reported		
Method:	Not reported		
Contained:	Not reported		
A310 Letter:	Yes	TCPA Chemical:	No
Hazrds Material:	Yes	CAS Number:	Not reported
COMU:	1430	Ref. Code:	101
Amnt Released:	UNKNOWN		
Release Type:	Terminated	Contained:	Yes
Injuries:	No	Facility Evacuation:	No
Public Exposure:	No	Public Evacuation:	No
Police at Scene:	No	Firemen at Scene:	No
Contamination of:	Land	Receiving Water:	Not reported
Caller:			
Name:	PETER KUYK	Title:	AWK ASSOC
Address:	BRIDGEWATER, NJ		
Telephone:	908-356-6688		
Responsible Party:			
Name:	Known	Company:	ISOLANTITE
Contact:	Not reported	Title:	Not reported
Address:	337 WARREN AVE STIRLING, NJ		
County:	MORRIS	Telephone:	Not reported
NJ Spill:			
Name:	Not reported	Title:	Not reported
Telephone:	Not reported		
Date:	Not reported	Time:	Not reported
Local Municipality:			
Name:	PASSAIC TWP	Municipality Title:	DISP MILLER
Telephone:	908-647-1800		
Date:	09/06/1995	Time:	17:39
Other:			
Name:	Not reported	Title:	Not reported
Telephone:	Not reported		
Date:	Not reported	Time:	17:39
Incident:			
Name:	Not reported	Referred To:	DRPSR
Region:	BFO-CAS	Telephone:	Faxed,Mailed
Date:	09/06/1995	Incident Time:	Not reported
ITM:	B		

Incident Description:	U.S.T.,Soil Contamination
Incident Type:	Not reported
Wind Direction/Speed:	Not reported
Office Notified:	Not reported
Off Notified Phone:	Not reported
Date Office Notified:	Not reported
Assistance Requested:	No
Date A310 Letter Printed:	09/06/1995
Date Local Authority Was Notified:	Not reported
Date Update:	Not reported
Date Report Faxed to Local Authority:	09/06/1995
Local Authority Notification Date 1:	Not reported
Local Authority Notification Date 2:	Not reported
Local Authority Notification Date 3:	Not reported

Status at Spill: 1-1000 UST REMOVED WITH CONTAMINATED SOIL TODAY THIS IS AN ISRA CASE

ISOLANTITE MANUFACTURING CO (Continued) **1001079406**

Comments: CHART H

NJ Spill:

Facility ID:	14266	Case Number:	93-8-23-1019-04
Date Received:	08/23/1993	Operator:	JOES
Location:	Other	Nature of Incident:	Citizen
Facility Phone:	Not reported	Facility Type:	Residential
Date of Incident:	06/07/1993	Time of Incident:	UNK
Substance(s):	OIL HEATING #2		
Substance Type:	Liquid	Substance Identity:	Known
A310 Letter:	Yes	TCPA Chemical:	No
Hazrds Material:	Yes	CAS Number:	Not reported
COMU:	1102	Ref. Code:	101
Amnt Released:	UNK	Release VE:	Not reported
Release Type:	Continuous	Contained:	No
Injuries:	No	Facility Evacuation:	No
Public Exposure:	No	Public Evacuation:	No
Police at Scene:	No	Firemen at Scene:	No
Contamination of:	Land,Water	Receiving Water:	WELL WATER

Caller:

Name:	MILTON R. ANDERSON	Title:	CIT
Address:	31 SUSAN AVE BEACH HAVEN, NJ		
Phone:	609-492-7249		

Responsible Party:

Name:	UnKnown	Company:	Not reported
Contact:	Not reported	Title:	Not reported
Address:	Not reported		
County:	Not reported	Phone:	Not reported

NJ Spill:

Name:	Not reported	Title:	Not reported
Phone:	Not reported		
Date:	Not reported	Time:	Not reported

Local Municipality:

Name:	EWING TWP	Title:	DISP 10
Phone:	609-882-1313		
Date:	08/23/1993	Time:	10:25

Other:

Name:	Not reported	Title:	Not reported
Phone:	Not reported		
Date:	Not reported	Time:	Not reported

Incident:

Name:	Not reported	Referred To:	DPRSR
Region:	BFO-SA	Telephone:	Faxed,Mail
Date:	08/23/1993	Incident Time:	Not reported
ITM:	B		

Incident Description:	L.U.S.T.
Wind Direction/Speed:	Not reported
Official Notofication Info:	Not reported
Official Notify:	Not reported
Method:	Not reported
Notify Type:	Not reported
NJ Spill Type:	Not reported
Unit:	Not reported
Contained:	Not reported
Assistance Requested:	Yes
Date A310 Letter Printed:	Not reported
Date Local Authority Was Notified:	Not reported

ISOLANTITE MANUFACTURING CO (Continued) **1001079406**

Date Update: Not reported
Date Report Faxed to Local Authority: Not reported
Local Authority Notification Date 1: Not reported
Local Authority Notification Date 2: Not reported
Local Authority Notification Date 3: Not reported
Status at Spill: WELL IS CONTAMINATED WITH HEATING OIL FROM UST ON NEARBY PROPERTY...CALLER RENTS OUT THIS PROPERTY
Comments: Not reported

Facility ID:	14266	Case Number:	93-8-23-1019-04
Date Received:	08/23/1993	Operator:	JOES
Location:	Other	Nature of Incident:	Citizen
Facility Phone:	Not reported	Facility Type:	Residential
Date of Incident:	06/07/1993	Time of Incident:	UNK
Substance(s):	OIL HEATING #2		
Substance Type:	Liquid	Substance Identity:	Known
A310 Letter:	Yes	TCPA Chemical:	No
Hazrds Material:	Yes	CAS Number:	Not reported
COMU:	1102	Ref. Code:	101
Amnt Released:	UNK	Release VE:	Not reported
Release Type:	Continuous	Contained:	No
Injuries:	No	Facility Evacuation:	No
Public Exposure:	No	Public Evacuation:	No
Police at Scene:	No	Firemen at Scene:	No
Contamination of:	Land,Water	Receiving Water:	WELL WATER

Caller:

Name:	MILTON R. ANDERSON	Title:	CIT
Address:	31 SUSAN AVE BEACH HAVEN, NJ		
Phone:	609-492-7249		

Responsible Party:

Name:	UnKnown	Company:	Not reported
Contact:	Not reported	Title:	Not reported
Address:	Not reported		
County:	Not reported	Phone:	Not reported

NJ Spill:

Name:	Not reported	Title:	Not reported
Phone:	Not reported		
Date:	Not reported	Time:	Not reported

Local Municipality:

Name:	EWING TWP	Title:	DISP 10
Phone:	609-882-1313		
Date:	08/23/1993	Time:	10:25

Other:

Name:	Not reported	Title:	Not reported
Phone:	Not reported		
Date:	Not reported	Time:	Not reported

Incident:

Name:	Not reported	Referred To:	DPRSR
Region:	BFO-SA	Telephone:	Faxed,Mail
Date:	08/23/1993	Incident Time:	Not reported
ITM:	B		

Incident Description: L.U.S.T.
Wind Direction/Speed: Not reported
Official Notofication Info: Not reported
Official Notify: Not reported
Method: Not reported

ISOLANTITE MANUFACTURING CO (Continued) **1001079406**

Notify Type: Not reported
NJ Spill Type: Not reported
Unit: Not reported
Contained: Not reported
Assistance Requested: Yes
Date A310 Letter Printed: Not reported
Date Local Authority Was Notified: Not reported
Date Update: Not reported
Date Report Faxed to Local Authority: Not reported
Local Authority Notification Date 1: Not reported
Local Authority Notification Date 2: Not reported
Local Authority Notification Date 3: Not reported
Status at Spill: WELL IS CONTAMINATED WITH HEATING OIL FROM UST ON NEARBY PROPERTY...CALLER RENTS OUT THIS PROPERTY
Comments: Not reported

9
NNW
1/4-1/2
2189
Higher

EXXON SERVICE STATION SPRING LAKE BORO **SHWS** **S103031620**
RTE 71 / WARREN AVE **N/A**
SPRING LAKE BOROUGH, NJ

SHWS:
Facility ID: NJD986610558 Case ID: 83766
Contact: BUST Sub Section Code:A
Case Status: ACTIVE
Status Date: 05/31/1995
Site Municipality: 1348
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

10
North
1/2-1
4259
Higher

BROWNS AUTO SHOP **RCRIS-SQG** **1000543103**
HWY 71 LUDLOW AVE **FINDS** **NJD986616167**
SPRING LAKE, NJ 07762 **UST**
SHWS

RCRIS:
Owner: GEORGE SCIFO
(732) 449-8777
Contact: GEORGE SCIFO
(732) 449-8777
Record Date: 09/24/1991
Classification: Small Quantity Generator
Used Oil Recyc: No

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

SHWS:
Facility ID: NJD986616167 Case ID: 151797
Contact: BUST Sub Section Code:A
Case Status: ACTIVE

BROWNS AUTO SHOP (Continued) **1000543103**

Status Date: 04/11/1989
Site Municipality: 1349
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

UST:
Facility ID: 0151797
Install Date: 1/1/87 0:00:00
Unique Tank ID: 4.00
Facility Status: Inactive
Facility Type: B. COMMERCIAL/INDUSTRIAL
Owner Tank ID: E4
Operator: Not reported
Operator Address: Not reported
Owner: LEON W FRANCIS JR
Owner Address: 2112 4TH AVE
SPRING LAKE, NJ 07762
Tank Capacity: 2000.00 Gallons
Tank Contents: A. LEADED GASOLINE
Tank Construction: A. BARE STEEL
Tank Structure: A. SINGLE WALL
Pipe Contents: A. BARE STEEL
Pipe Structure: Not reported
Over Fill Products: No
Spill Containment Around Fill Pipe: No
Tank Status: G. REMOVED 4/11/89
Date Tank Removed: Not reported
Date Tank Abandoned in Place: Not reported
Date Tank Taken Out of Service: Not reported
Date of Tank Sale or Transfer: Not reported
Tank Closure Number: Not reported
Tank ISRA Number: Not reported
Tank in Wellhead Protection Area: Not reported
Is Facility in Compliance Rules: No

BROWNS AUTO SHOP (Continued) **1000543103**

Facility ID:	0151797	Facility Status:	Inactive
Install Date:	1/1/87 0:00:00	Facility Type:	B. COMMERCIAL/INDUSTRIAL
Unique Tank ID:	5.00	Owner Tank ID:	E5

Operator:	Not reported
Operator Address:	Not reported
Owner:	LEON W FRANCIS JR
Owner Address:	2112 4TH AVE SPRING LAKE, NJ 07762
Tank Capacity:	2000.00 Gallons
Tank Contents:	A. LEADED GASOLINE
Tank Construction:	A. BARE STEEL
Tank Structure:	A. SINGLE WALL
Pipe Contents:	A. BARE STEEL
Pipe Structure:	Not reported
Over Fill Products:	No
Spill Containment Around Fill Pipe:	No
Tank Status:	G. REMOVED 4/11/89
Date Tank Removed:	Not reported
Date Tank Abandoned in Place:	Not reported
Date Tank Taken Out of Service:	Not reported
Date of Tank Sale or Transfer:	Not reported
Tank Closure Number:	Not reported
Tank ISRA Number:	Not reported
Tank in Wellhead Protection Area:	Not reported
Is Facility in Compliance Rules:	No

Facility ID:	0151797	Facility Status:	Inactive
Install Date:	1/1/87 0:00:00	Facility Type:	B. COMMERCIAL/INDUSTRIAL
Unique Tank ID:	3.00	Owner Tank ID:	E3

Operator:	Not reported
Operator Address:	Not reported
Owner:	LEON W FRANCIS JR
Owner Address:	2112 4TH AVE SPRING LAKE, NJ 07762
Tank Capacity:	2000.00 Gallons
Tank Contents:	A. LEADED GASOLINE
Tank Construction:	A. BARE STEEL
Tank Structure:	A. SINGLE WALL
Pipe Contents:	A. BARE STEEL
Pipe Structure:	Not reported
Over Fill Products:	No
Spill Containment Around Fill Pipe:	No
Tank Status:	G. REMOVED 4/11/89
Date Tank Removed:	Not reported
Date Tank Abandoned in Place:	Not reported
Date Tank Taken Out of Service:	Not reported
Date of Tank Sale or Transfer:	Not reported
Tank Closure Number:	Not reported
Tank ISRA Number:	Not reported
Tank in Wellhead Protection Area:	Not reported
Is Facility in Compliance Rules:	No

BROWNS AUTO SHOP (Continued) **1000543103**

Facility ID:	0151797	Facility Status:	Inactive
Install Date:	1/1/87 0:00:00	Facility Type:	B. COMMERCIAL/INDUSTRIAL
Unique Tank ID:	2.00	Owner Tank ID:	E2
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	LEON W FRANCIS JR		
Owner Address:	2112 4TH AVE SPRING LAKE, NJ 07762		
Tank Capacity:	3000.00 Gallons		
Tank Contents:	B. UNLEADED GASOLINE		
Tank Construction:	A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED 4/11/89		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank In Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

Facility ID:	0151797	Facility Status:	Inactive
Install Date:	1/1/54 0:00:00	Facility Type:	B. COMMERCIAL/INDUSTRIAL
Unique Tank ID:	1.00	Owner Tank ID:	E1
Operator:	Not reported		
Operator Address:	Not reported		
Owner:	LEON W FRANCIS JR		
Owner Address:	2112 4TH AVE SPRING LAKE, NJ 07762		
Tank Capacity:	2000.00 Gallons		
Tank Contents:	B. UNLEADED GASOLINE		
Tank Construction:	A. BARE STEEL		
Tank Structure:	A. SINGLE WALL		
Pipe Contents:	A. BARE STEEL		
Pipe Structure:	Not reported		
Over Fill Products:	No		
Spill Containment Around Fill Pipe:	No		
Tank Status:	G. REMOVED 4/11/89		
Date Tank Removed:	Not reported		
Date Tank Abandoned in Place:	Not reported		
Date Tank Taken Out of Service:	Not reported		
Date of Tank Sale or Transfer:	Not reported		
Tank Closure Number:	Not reported		
Tank ISRA Number:	Not reported		
Tank In Wellhead Protection Area:	Not reported		
Is Facility in Compliance Rules:	No		

11 **SPRING LAKE BD OF EDUCATION** **UST U000360880**
NNE **411 TUTTLE AVE** **SHWS N/A**
1/2-1 **SPRING LAKE, NJ 07762**
4374
Higher

SPRING LAKE BD OF EDUCATION (Continued) **U000360880**

SHWS:
Facility ID: NJL600070551 Case ID: 112420
Contact: BFMCR Sub Section CodeA
Case Status: ACTIVE
Status Date: 08/30/1990
Site Municipality: 1348
Sub Section Label: SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION
Remedial Action Type: Not reported
CEA/DER: Not reported

UST:
Facility ID: 0112420 Facility Status: Inactive
Install Date: 1/1/72 0:00:00 Facility Type: B. COMMERCIAL/INDUSTRIAL
Unique Tank ID: 1.00 Owner Tank ID: A1
Operator: Not reported
Operator Address: Not reported
Owner: SPRING LAKE BD OF EDUCATION
Owner Address: 411 TUTTLE AVE
SPRING LAKE, NJ 07762
Tank Capacity: 10000.00 Gallons
Tank Contents: H. HOME HEATING OIL (NO. 2)
Tank Construction: A. BARE STEEL B. CATHODICALLY PROTECTED STEEL
Tank Structure: A. SINGLE WALL
Pipe Contents: A. BARE STEEL
Pipe Structure: A. SINGLE WALL
Over Fill Products: Yes
Spill Containment Around Fill Pipe: No
Tank Status: G. REMOVED 8/9/90
Date Tank Removed: Not reported
Date Tank Abandoned in Place: Not reported
Date Tank Taken Out of Service: Not reported
Date of Tank Sale or Transfer: Not reported
Tank Closure Number: Not reported
Tank ISRA Number: Not reported
Tank in Wellhead Protection Area: Not reported
Is Facility in Compliance Rules: No

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12 West 1/2-1 5098 Higher

WALDICK AEROSPACE DEVICES, INC.
2121 ROUTE 35
WALL TOWNSHIP, NJ 07719

CERCLIS 1000189144
FINDS NJD980651269
NPL
RCRIS-LQG
CONSENT
ROD
SHWS

CERCLIS Classification Data:
Site Incident Category: Not reported Federal Facility: Not a Federal Facility
Non NPL Status: Not reported
Ownership Status: Private NPL Status: Currently on the Final NPL
Contact: CHARLES FITZSIMMONS Contact Tel: (908) 321-6608
Contact Title: Not reported
Site Description: * SEE INCIDENT DESCRIPTION
CERCLIS Assessment History:
Assessment: DISCOVERY Completed: 01/01/1984
Assessment: PRELIMINARY ASSESSMENT Completed: 01/01/1984
Assessment: SITE INSPECTION Completed: 10/01/1984
Assessment: PROPOSAL TO NPL Completed: 10/15/1984
Assessment: NPL RP SEARCH Completed: 02/15/1985

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

Assessment:	FORWARD PLANNING	Completed:	05/31/1985
Assessment:	COMMUNITY INVOLVEMENT	Completed:	10/18/1985
Assessment:	RI/FS WORKPLAN APPROVAL BY HQ	Completed:	01/16/1986
Assessment:	SECTION 107 LITIGATION	Completed:	02/20/1986
Assessment:	CLAIM IN BANKRUPTCY PROCEEDING	Completed:	04/07/1986
Assessment:	PREPARATION OF COST DOCM PKGE	Completed:	06/05/1986
Assessment:	FINAL LISTING ON NPL	Completed:	06/10/1986
Assessment:	REMOVAL	Completed:	08/02/1986
Assessment:	COMBINED RI/FS	Completed:	09/29/1987
Assessment:	RECORD OF DECISION	Completed:	09/29/1987
Assessment:	TECHNICAL ASSISTANCE	Completed:	09/29/1987
Assessment:	RD/RA NEGOTIATIONS	Completed:	03/19/1988
Assessment:	HUMAN HEALTH RISK ASSESSMENT	Completed:	04/15/1990
Assessment:	ECOLOGICAL RISK ASSESSMENT	Completed:	04/15/1990
Assessment:	REMOVAL ASSESSMENT	Completed:	09/07/1990
Assessment:	COMBINED RI/FS	Completed:	03/29/1991
Assessment:	RECORD OF DECISION	Completed:	03/29/1991
Assessment:	RD/RA NEGOTIATIONS	Completed:	06/28/1991
Assessment:	REMEDIAL DESIGN	Completed:	11/15/1991
Assessment:	REMOVAL ASSESSMENT	Completed:	02/09/1993
Assessment:	Lodged By DOJ	Completed:	10/13/1993
Assessment:	CONSENT DECREE	Completed:	11/15/1993
Assessment:	SECTION 107 LITIGATION	Completed:	11/15/1993
Assessment:	REMEDIAL ACTION	Completed:	08/30/1995
Assessment:	FIVE YEAR REMEDY ASSESSMENT	Completed:	02/23/2000

CERCLIS Site Status:
Not reported

CERCLIS Alias Name(s):
WALDICK AEROSPACE DEVICES INC
WALDICK AEROSPACE DEVICES, INC
WALDICK AEROSPACE DEVICES, INC.
WALDICK AEROSPACE DEVICES, INC.

NPL:

EPA ID:	NJD054981337
Region:	02
Federal:	General
Final Date:	06/10/1986

NPL Contaminant:

NPL Status:	Final
Substance Id:	A038
Case Num:	7440-02-0
Substance :	NICKEL AND COMPOUNDS, NOS (NI)
Pathway :	NOT INDICATED
GW Scoring :	Not reported
SW Scoring :	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported

NPL Status:	Final
Substance Id:	C156
Case Num:	7429-90-5
Substance :	ALUMINUM AND COMPOUNDS, NOS (AL)
Pathway :	NOT INDICATED
GW Scoring :	Not reported
SW Scoring :	Not reported

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: C196
Case Num: 7647-01-0
Substance : HYDROCHLORIC ACID
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: C320
Case Num: 18540-29-9
Substance : CHROMIUM, HEXAVALENT
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: D004
Case Num: 7440-38-2
Substance : ARSENIC
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: D008
Case Num: 7439-92-1
Substance : LEAD (PB)
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: P030
Case Num: 420-04-2
Substance : CYANIDES (SOLUBLE SALTS), NOS
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported

WALDICK AEROSPACE DEVICES, INC. (Continued) 1000189144

Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U037
Case Num: 108-90-7
Substance : CHLOROBENZENE
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U079
Case Num: 156-60-5
Substance : TRANS-DICHLOROETHYLENE, 1,2-
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U220
Case Num: 108-88-3
Substance : TOLUENE
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: U228
Case Num: 79-01-6
Substance : TRICHLOROETHYLENE (TCE), 1,1,2-
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported

NPL Status: Final
Substance Id: W002
Case Num: Not reported
Substance : VOLATILE ORGANICS, NOS
Pathway : NOT INDICATED
GW Scoring : Not reported
SW Scoring : Not reported

WALDICK AEROSPACE DEVICES, INC. (Continued) 1000189144

Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	A020
Case Num:	7440-47-3
Substance :	CHROMIUM AND COMPOUNDS, NOS (CR)
Pathway :	GW
GW Scoring :	Observed Release
SW Scoring :	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	D006
Case Num:	7440-43-9
Substance :	CADMIUM (CD)
Pathway :	GW
GW Scoring :	Observed Release & Toxicity
SW Scoring :	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U210
Case Num:	79-34-5
Substance :	TETRACHLOROETHENE
Pathway :	GW
GW Scoring :	Observed Release
SW Scoring :	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	D006
Case Num:	7440-43-9
Substance :	CADMIUM (CD)
Pathway :	SW
GW Scoring :	Not reported
SW Scoring :	Toxicity
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported

NPL Site:

CERCLIS Id:	NJD054981337
Site City:	Wall Township
Site State:	NJ
NPL Status:	Final
Status Date:	06/10/86
Federal Site:	Not reported

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

HRS Score: 44.86
GW Score: 76.92
SW Score: 10.26
Air Score: 0.00
Soil Score: 0.00
DC Score: 0.00
FE Score: 0.00

NPL Char:

NPL Status: Final
Category Description: DEPTH TO AQUIFER
Category Value: 10

NPL Status: Final
Category Description: DISTANCE TO THE NEAREST POPULATION
Category Value: 10

NPL Status: Final
Category Description: OBSERVED RELEASE-Ground Water
Category Value: Not reported

NPL Status: Final
Category Description: PHYSICAL STATE-Liquid
Category Value: Not reported

NPL Status: Final
Category Description: SITE ACTIVITY WASTE SOURCE-Manufacturing
Category Value: Not reported

NPL Status: Final
Category Description: SITE ACTIVITY WASTE SOURCE-Manufacturing Electroplating
Category Value: Not reported

NPL Status: Final
Category Description: SURFACE WATER ADJACENT TO SITE-Stream
Category Value: Not reported

NPL Status: Final
Category Description: SURFACE WATER ADJACENT TO SITE-Wetland
Category Value: Not reported

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

CONSENT:
Full-text of a consent decree on this site issued by a United States District Court is available from EDR.

RCRIS:
Owner: WALDICK AEROSPACE
(732) 449-1800

Contact: PAUL LESSARD
(732) 449-1800

Record Date: 11/05/1982
Classification: Large Quantity Generator

WALDICK AEROSPACE DEVICES, INC. (Continued) **1000189144**

Used Oil Recyc: No

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Comperhensive Environmental Response, Compensation and Liability Information System (CERCLIS)
Enforcement Docket System (DOCKET)
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

SHWS:

Facility ID:	NJD054981337	Case ID:	0
Contact:	BSM	Sub Section Code:	A
Case Status:	ACTIVE		
Status Date:	05/15/1985		
Site Municipality:	1352		
Sub Section Label:	SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION		
Remedial Action Type:	Not reported		
CEA/DER:	Not reported		

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
SEA GIRT	S104386214	SEA GIRT GULF	RT 35 / SEA GIRT AVE	08750	LUST	
SEA GIRT	S104387086	BROOKSIDE SCHOOL	310 RTE 35	08750	LUST	
SPRING LAKE	S104919612	2004 ROUTE 71	2004 RTE 71	07762	BROWNFIELDS	
SPRING LAKE	U000368370	SMRA PITNEY AVE.	S. BLVD. NEAR OCEAN AVE.	07762	UST	0265052
SPRING LAKE	1000542628	WALL AMOCO	2004 STATE ROUTE 35	07762	RCRIS-SQG, FINDS	
SPRING LAKE HEIGHTS	S104394300	SUNOCO SERVICE STATION #0007-7545	RTE #71 / WARREN RD	07762	LUST	99-02-24-1547-50
SPRING LAKE HEIGHTS	1001221951	GETTY PETROLEUM CORP 56113	2313 RTE 71 WALL ST	07762	RCRIS-SQG, FINDS	
SPRING LAKE HEIGHTS	S104387947	BROWN'S AUTO SHOP	1820 ROUTE 71	07762	LUST	89-04-11-1514
SPRING LAKE HEIGHTS	S104388296	MOBIL S/S #15-K5M	RT 71 / SHORE RD	07762	LUST	89-12-20-1134
SPRING LAKE HEIGHTS	S104389987	GETTY S/S #56113	2313 RTE 71	07762	LUST	92-07-10-1235
SPRING LAKE HEIGHTS	S104390161	SPRING LAKE HEIGHTS SCHOOL	1110 RTE 71	07762	LUST	92-09-18-0827
SPRING LAKE HEIGHTS	S104392463	EMPTY LOT/FORMER SERVICE STATION	2004 RTE 71	07762	LUST	96-08-14-1517-24
SPRING LAKE HEIGHTS	S104588891	JOB LOT	RTE 71 / WALL RD	07762	LUST	92-08-18-1041
SPRING LAKE HEIGHTS	U000357000	12K5M	RT 71 & SHORE PL	07762	UST	0062264
SPRING LAKE HEIGHTS	S104389472	EXXON S/S #3-7044	RT 71/WARREN AVE	07762	LUST	91-10-14-1700
SPRING LAKE HEIGHTS	S104387435	SPRING LAKE HEIGHTS MUNICPAL GARAGE	ATLANTIC AVE	07762	LUST	86-09-29-06C
SPRING LAKE HEIGHTS	S104588196	SAINT CATHARINE'S SCHOOL	SECOND / SALEM AVES	07762	LUST	89-11-21-1431
WALL TWP.	1004654347	SUN CLEANERS	2213 ROUTE 35	08750	CERCLIS	

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/29/02
Date Made Active at EDR: 02/25/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/04/02
Elapsed ASTM days: 21
Date of Last EDR Contact: 02/04/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 6
Telephone: 214-655-6659

EPA Region 8
Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 01/17/02
Date Made Active at EDR: 02/25/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/04/02
Elapsed ASTM days: 21
Date of Last EDR Contact: 02/04/02

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/21/01
Date Made Active at EDR: 02/04/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/26/01
Elapsed ASTM days: 40
Date of Last EDR Contact: 12/26/01

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 11/21/01
Date Made Active at EDR: 02/04/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/26/01
Elapsed ASTM days: 40
Date of Last EDR Contact: 12/16/01

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/14/01
Date Made Active at EDR: 01/14/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/14/01
Elapsed ASTM days: 61
Date of Last EDR Contact: 11/14/01

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/21/00
Date Made Active at EDR: 07/31/00
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/10/00
Elapsed ASTM days: 21
Date of Last EDR Contact: 01/14/02

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 08/08/00
Date Made Active at EDR: 09/06/00
Database Release Frequency: Varies

Date of Data Arrival at EDR: 08/11/00
Elapsed ASTM days: 26
Date of Last EDR Contact: 02/01/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/99
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/17/01
Date of Next Scheduled EDR Contact: 03/18/02

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/00
Database Release Frequency: Annually

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/29/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/04/02
Date of Next Scheduled EDR Contact: 05/06/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/29/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4526
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/21/02
Date of Next Scheduled EDR Contact: 04/22/02

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 12/14/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/02/02
Date of Next Scheduled EDR Contact: 04/01/02

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/19/01
Date of Next Scheduled EDR Contact: 02/18/02

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3936
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 02/12/02
Date of Next Scheduled EDR Contact: 05/13/02

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/11/01
Date of Next Scheduled EDR Contact: 03/11/02

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/99
Database Release Frequency: Annually

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-5521
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 01/22/02
Date of Next Scheduled EDR Contact: 04/22/02

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/11/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 01/14/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/26/01
Date of Next Scheduled EDR Contact: 03/25/02

STATE OF NEW JERSEY ASTM STANDARD RECORDS

SHWS: Known Contaminated Sites in New Jersey Except Those Associated with Bureau of Underground Storage Sites (BUST)
Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
The Known Contaminated Sites in New Jersey includes sites under the purview of the Site Remediation Program which have contamination present at levels greater than the applicable cleanup criteria for soil and/or groundwater standards. The sites appearing in Known Contaminated Sites in New Jersey are classified as either active, where the site is assigned to a specific remedial program area, or pending, where the site is awaiting assignment to a specific remedial program area. Sites where no further action (NFA) designation has been given are not included in this report unless there are other areas of identified contamination which have not been remediated. This report includes sites being remediated under all of the various regulatory programs administered by the Site Remediation Program such as: Federal Superfund Program, Federal Resource Conservation and Recovery Act (RCRA), New Jersey's Industrial Site Recovery Act (ISRA), New Jersey's Underground Storage of Hazardous Substances Act, New Jersey's Spill Compensation and Control Act, New Jersey's Solid Waste Management Act, New Jersey's Water Pollution Control Act.

Date of Government Version: 05/01/01
Date Made Active at EDR: 07/25/01
Database Release Frequency: Varies
Date of Data Arrival at EDR: 06/18/01
Elapsed ASTM days: 37
Date of Last EDR Contact: 12/26/01

SWF/LF: Solid Waste Facility Directory
Source: Department of Environmental Protection
Telephone: 609-984-6741
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/12/01
Date Made Active at EDR: 01/31/02
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 01/07/02
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/03/01

LUST: Regulated UST Contamination Sites Listing
Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/04/02
Date Made Active at EDR: 01/21/02
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 01/07/02
Elapsed ASTM days: 14
Date of Last EDR Contact: 11/30/01

UST: Underground Storage Tank Data
Source: Department of Environmental Protection
Telephone: 609-633-1455
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/15/99
Date Made Active at EDR: 10/18/99
Database Release Frequency: Annually
Date of Data Arrival at EDR: 09/15/99
Elapsed ASTM days: 33
Date of Last EDR Contact: 01/08/02

STATE OF NEW JERSEY ASTM SUPPLEMENTAL RECORDS

NJ MAJOR FACILITIES: List of Major Facilities
Source: Department of Environmental Protection
Telephone: 609-292-1690
Major facilities means all facilities, located on one or more contiguous or adjacent properties owned or operated by the same person, having total combined storage capacity of 20,000 gallons or more for hazardous substances other than petroleum or petroleum products, or 200,000 gallons or more of hazardous substances of all kinds.

Date of Government Version: 01/02/02
Database Release Frequency: Biennially

Date of Last EDR Contact: 02/18/02
Date of Next Scheduled EDR Contact: 05/20/02

NJ Spills: Spills
Source: Department of Environmental Protection
Telephone: 609-633-0898
Initial notification information of hazardous material incidents, where there is land contamination, reported to the Department of Environmental Protection's Environmental Action Line. The DEP has not conducted any investigation to determine its validity or accuracy.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

NJ Release: Hazardous Material Incident Database
Source: Department of Environmental Protection
Telephone: 604-633-0898
Hazardous material release. Initial notification information reported to the Department of Environmental Protection's Environmental Action Line and the office has not conducted any investigations to determine its validity or accuracy.

Date of Government Version: 12/31/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/07/02
Date of Next Scheduled EDR Contact: 04/08/02

PF: Publicly Funded Cleanups Site Status Report
Source: Department of Environmental Protection
Telephone: 609-292-9418
The report focuses on publicly funded cleanups and features progress achieved and underway at all sites that are being addressed by the NJDEP with public funds.

Date of Government Version: 12/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 11/01/01
Date of Next Scheduled EDR Contact: 02/25/02

CHROME: Chromate Chemical Production Waste Sites
Source: Department of Environmental Protection
Telephone: 609-984-4071
Known chromate chemical production waste sites.

Date of Government Version: 11/21/01
Database Release Frequency: Varies

Date of Last EDR Contact: 12/12/01
Date of Next Scheduled EDR Contact: 03/11/02

BROWNFIELDS: Brownfields Database
Source: Department of Environmental Protection
Telephone: 609-633-0537
Brownfields are identified as former or current commercial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria.

Date of Government Version: 04/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/18/02
Date of Next Scheduled EDR Contact: 04/15/02

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

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OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

New Jersey State Wetlands
Source: New Jersey Department of Environmental Protection
This data was obtained by EDR in 1998 from the New Jersey Department of Environmental Protection.

Appendix D
List of Known contaminated Sites in the Borough of Spring Lake

KCS-NJ County - Municipality Listing (2001 Edition)
County and Municipality: MONMOUTH SPRING LAKE BOROUGH

County: MONMOUTH
Municipality: SPRING LAKE BOROUGH

A SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION

Site Name / Contact	Case Number	Site Address / Case Status	- Status Date	Site Identifier / Control/Remedial Action Type
1111 THIRD AVE		1111 THIRD AVE		NJL800391955
BFO-S	980311145815	ACTIVE	- 12/23/99	
EXXON SERVICE STATION SPRING LAKE BORO		RTE 71 & WARREN AVE		NJD986610558
BUST	0083766	ACTIVE	- 5/31/95	
MOBIL SERVICE STATION SPRING LAKE BORO		RTE 71 & SHORE PL		NJD986606325
BUST	0062264	ACTIVE	- 12/20/89	
SPRING LAKE BOROUGH BOARD OF EDUCATION		411 TUTTLE AVE		NJL600070551
BFMCR	0112420	ACTIVE	- 8/30/90	
SPRING LAKE DEPARTMENT OF PUBLIC WORKS		MONMOUTH & 5TH AVES		NJL800449597
BUST	0097365	ACTIVE	- 12/24/98	

5 SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION IN SPRING LAKE BOROUGH

County: MONMOUTH
Municipality: SPRING LAKE HEIGHTS BOROUGH

A SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION

Site Name / Contact	Case Number	Site Address / Case Status	- Status Date	Site Identifier / Control/Remedial Action Type
16 JASON DR BFO-S	000406224344	16 JASON DR ACTIVE	- 5/17/00	NJL800564635
20 JASON DR BFO-S	990526121112	20 JASON DR ACTIVE	- 8/3/99	NJL800495525
BROWNS AUTO SHOP BUST	0151797	1820 RTE 71 ACTIVE	- 4/11/89	NJD986616167
GETTY SERVICE STATION SPRING LAKE HEIGHT BUST	0016995	2313 RTE 71 & WALL RD ACTIVE	- 8/24/93	NJL600199129
SPRING LAKE HEIGHTS DEPT OF PUBLIC WORKS BUST	0044435	555 ATLANTIC AVE ACTIVE	- 9/29/86	NJD981873342
SPRING LAKE MINI MALL BFO-S	981001093858	RTE 71 S & WALL RD ACTIVE	- 10/20/98	NJL800002966
SUNOCO SERVICE STATION SPRING LAKE HEIGH BFO-IN	990224154750	WARREN AVE & RTE 71 ACTIVE	- 6/21/99	NJL800008070

7 SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION IN SPRING LAKE HEIGHTS BOROUGH

Appendix E
Contacts, Consultations and Correspondence

Mr. Robert Weinmiller, Director of Department of Public Works
Borough of Spring Lake
7 Gifford Road
Little Egg Harbor, NJ 08087
(609) 296-7241

Dan Volpe, Account Executive
Environmental Data Resources
3530 Post Road
Southport, CT 06490
(800) 352-0050

Sanborn Map Search, Aerial photos, Environmental records search, Historical USGS Topographic Map search

AOC Sheet
Updated 12-9-94

PHASE II AREA OF CONCERN TRACKING SHEET

NJL8004495?

Page 1

B-26, L-1 Tanks

Case No.: 98-11-12-0357-49	UST No.: 0097365
Name: Spring Lake RAV	Location: 5th & Monmouth Aves., Spring Lake Boro, Monmouth County
Job Code: A0563901	

Tank Registration Acceptable: (YES) or NO Multiple Owners/Operators: YES or (NO) IEC YES or (NO)

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: 1 Area of Concern: former 1,000 gal. WC. tank

Summary of Discovery of Discharge: None reported

Total number of tanks: 1

No. of Tanks:	1,000				
Size:	gallon				
Contents:	waste oil				
Construction:	steel				
Age:					

Length of piping run: ~1'	Number of Dispensers/pump islands: N/A
Date Tanks Removed: 9/98	TMS No., if applicable: N98-1101
New Tanks in Excavation: NO	
Waste Disposal Documentation: M/V Removed	Certified Clean Fill Documentation: acceptable

Parameters: VO X TPHC X BN X PAH __ Naphthalene __ Pb __ PP METALS X PCB X PP+40 __ Other _____

Results of Sampling: 3 post-ex for TPH @ 6' range 30-48 ppm hi TPH get PP+40 + excavation (WO-1,2,3) sample results & SC collected, tank pump out NC 7

Remediation Required?: YES or NO If YES, Remediation under RAW Approval? YES or NO

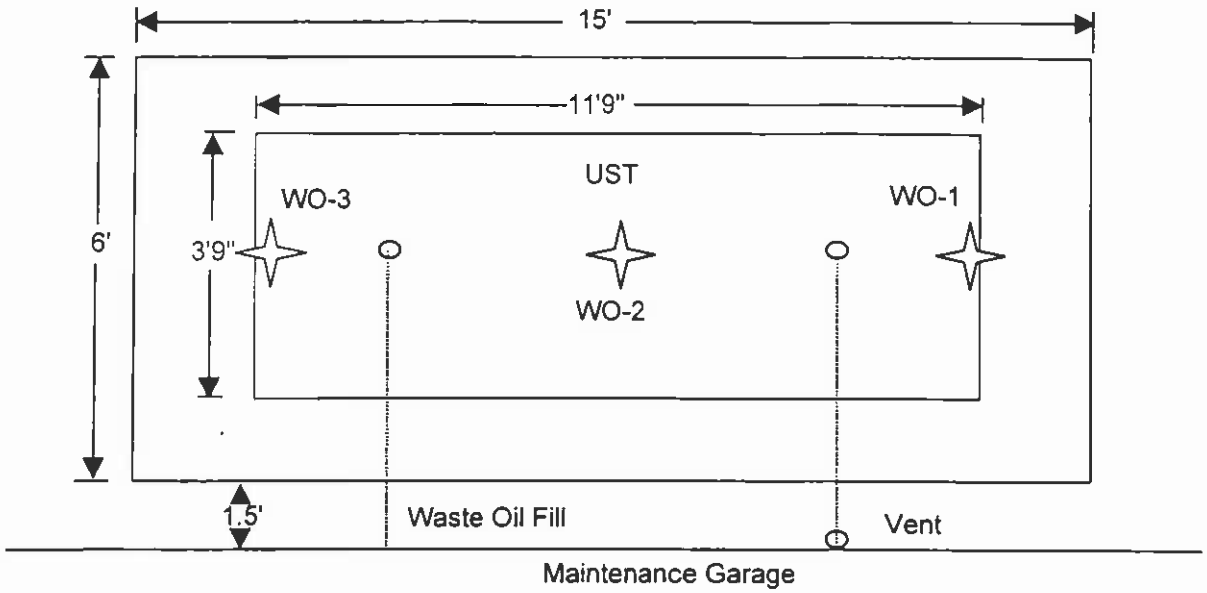
Remedial Actions Required or Completed: None

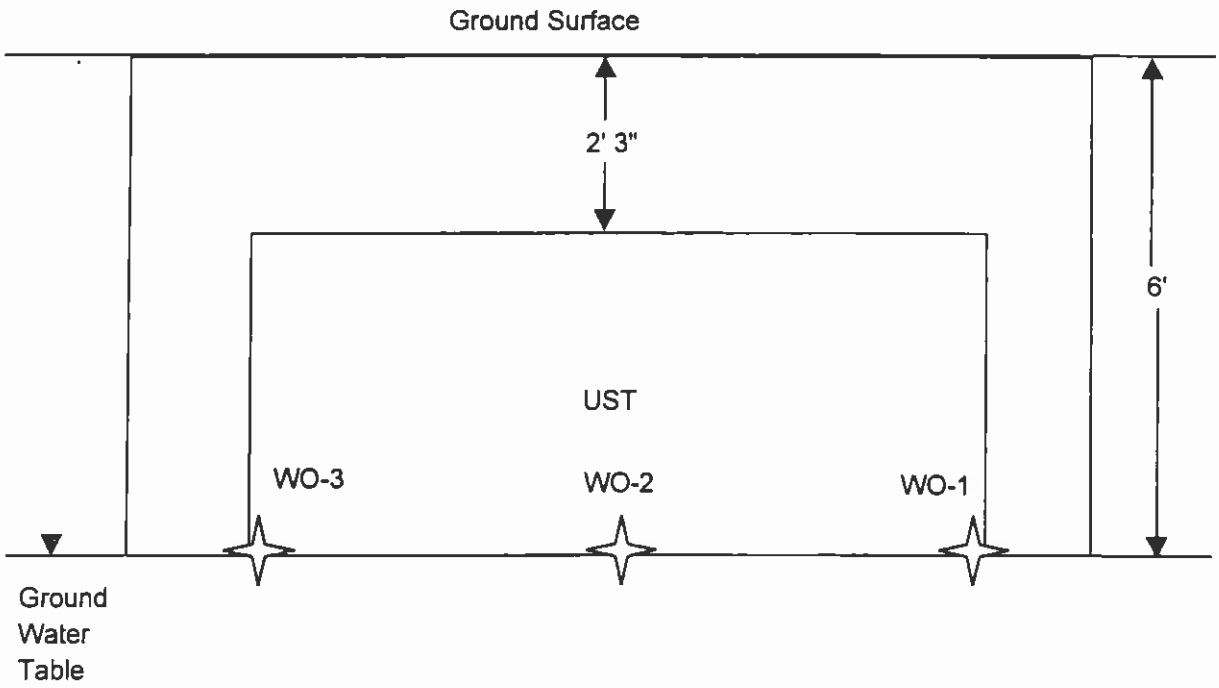
Final Outcome: QA/QC meet RCRs NFA

"NFA" Approved: CM Initials RV Date 12/17/98

Figure 4A.
Soil Sample Locations Map

1,000-Gallon Waste Oil Tank





AOC Sheet
Updated 12-[illegible]-94

PHASE II AREA OF CONCERN TRACKING SHEET

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: 2 Area of Concern: former (leaded) gas tank

Summary of Discovery of Discharge: sample hit w/(lead) oxylenes

Total number of tanks:

No. of Tanks:	1				
Size:	1,000				
Contents:	leaded gas				
Construction:	steel				
Age:					

Length of piping run: 7' w/ S' | Number of Dispensers/pump islands: 1

Date Tanks Removed: 9/98 | TMS No., if applicable: NAS-1101

New Tanks in Excavation: NO

Waste Disposal Documentation: ~~Non-hazard~~ 5 yd³ manifest available | Certified Clean Fill Documentation: available

Parameters: VO X TPHC__ BN__ PAH__ Naphthalene__ Pb X PP METALS__ PCB__ PP+40__ Other _____

Results of Sampling: 4 samples for VOs+Pb @ 6', piping samples @ 2' lead above in 2 samples 431 & 571 ppm xylenes @ 90 ppm
6/99 - 5 yd³ (G1-1,2,3,4) & 3 BTEX (elected) all below std. (G1-5)
3/2000: 12 samples from 6 borings analyzed for lead. range: 4.8 ppm to 8,410 ppm

Remediation Required?: YES or NO | If YES, Remediation under RAW Approval? YES or NO

Remedial Actions Required or Completed: greater concentrations noted in samples away from tank side; RP contends that lead is from incinerator (onsite) that was used as fill to bring the area up to grade

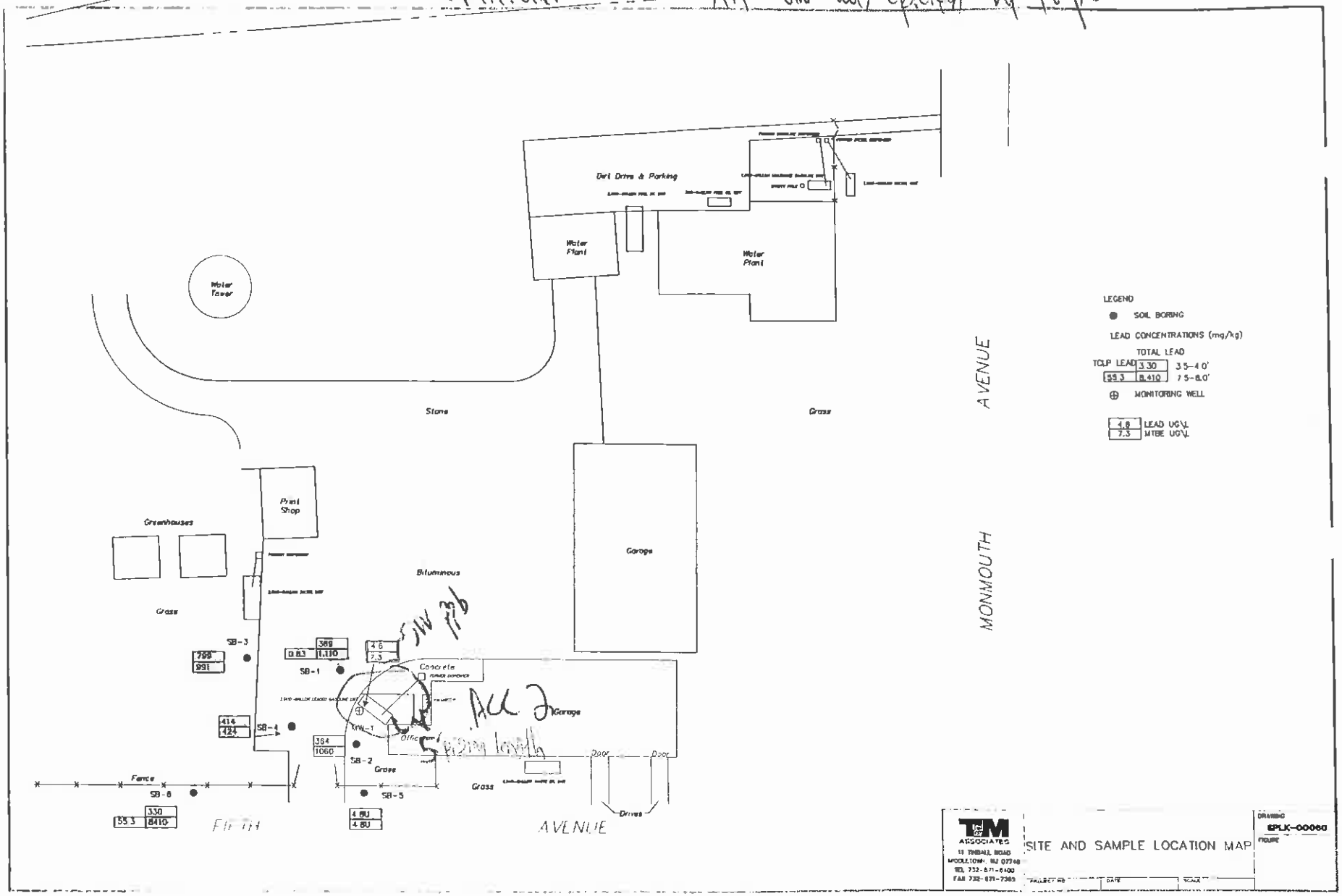
Final Outcome: incinerator no longer in use. Because the ash was generated on-site it will be treated as on-land fill issue. QA/QC for BTEX exceedance NFA 7/00

Layer of ash from incinerator (breathing) presumed source of lead in soil samples

"NFA" Approved: CH Initials RDy Date 7/26/00

landfill issue

incinerator is on-site and was operated by Twp.



TM ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7363

SITE AND SAMPLE LOCATION MAP

DRAWING EPLK-00060
FIGURE

PROJECT NO | DATE | SCALE

Table 2 Summary of Soil Analytical Results for Lead 3/1/2000

Borough of Spring Lake Department of Public Works
Fifth Avenue and Monmouth Avenue
Borough of Spring Lake, Monmouth County, New Jersey

The New Jersey DEP Standards listed reflect current Envirotech Research Inc knowledge of the standards and are intended as general guidance for the user. Please consult appropriate NJDEP regulations and cleanup standards for your specific application.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	SB-1A 186625 03/01/00 SOLID NA mg/kg	SB-1B 186626 03/01/00 SOLID NA mg/kg	SB-2A 186627 03/01/00 SOLID NA mg/kg	SB-2B 186628 03/01/00 SOLID NA mg/kg	SB-3A 186629 03/01/00 SOLID NA mg/kg	SB-3B 186630 03/01/00 SOLID NA mg/kg
METALS Lead	400	600	NA	369	1110	364	1060	799	991

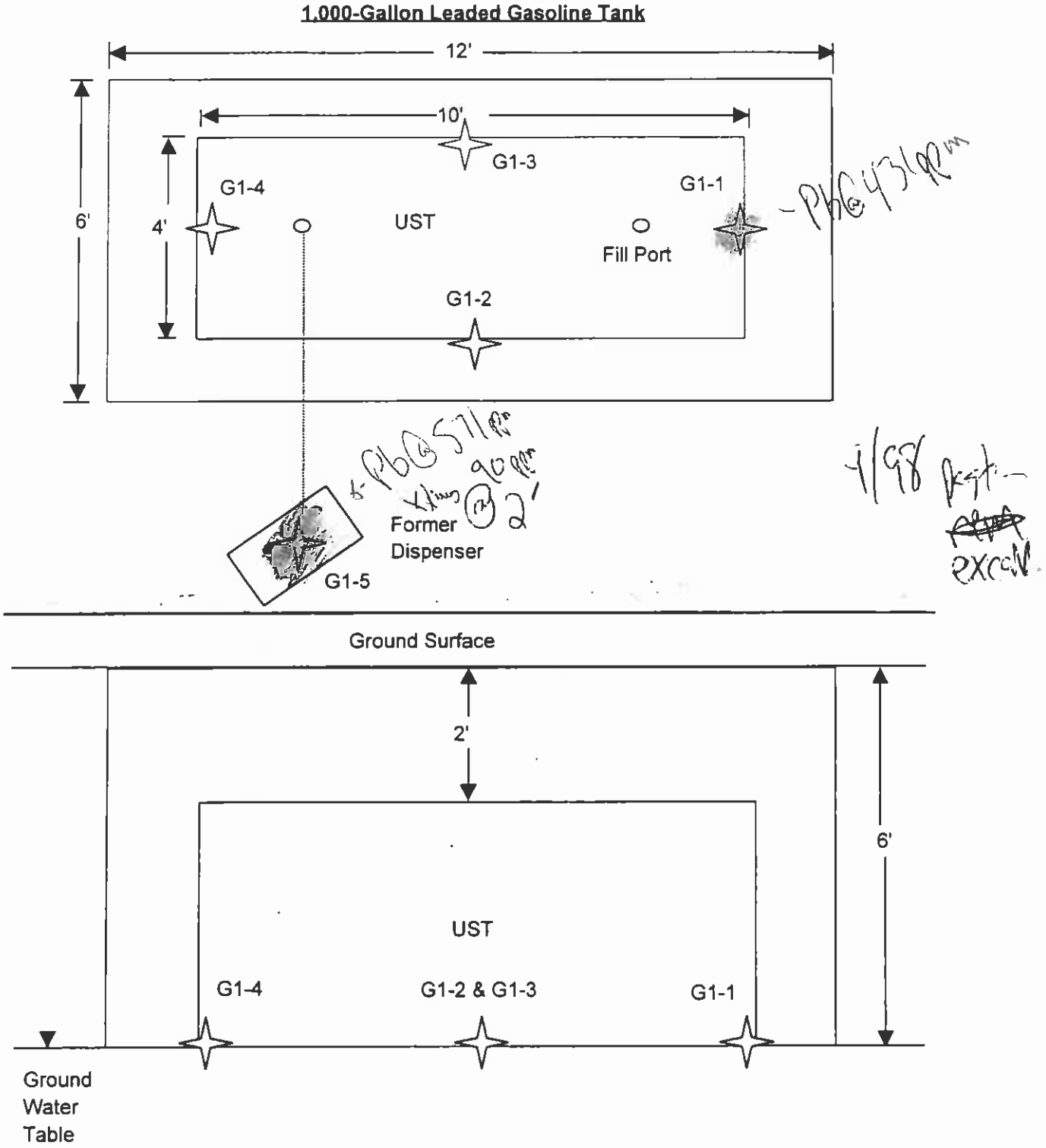
Qualifiers
- U - The compound was not detected at the indicated concentration.
- B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
- N - The spiked sample recovery is not within control limits
- NR - Not analyzed

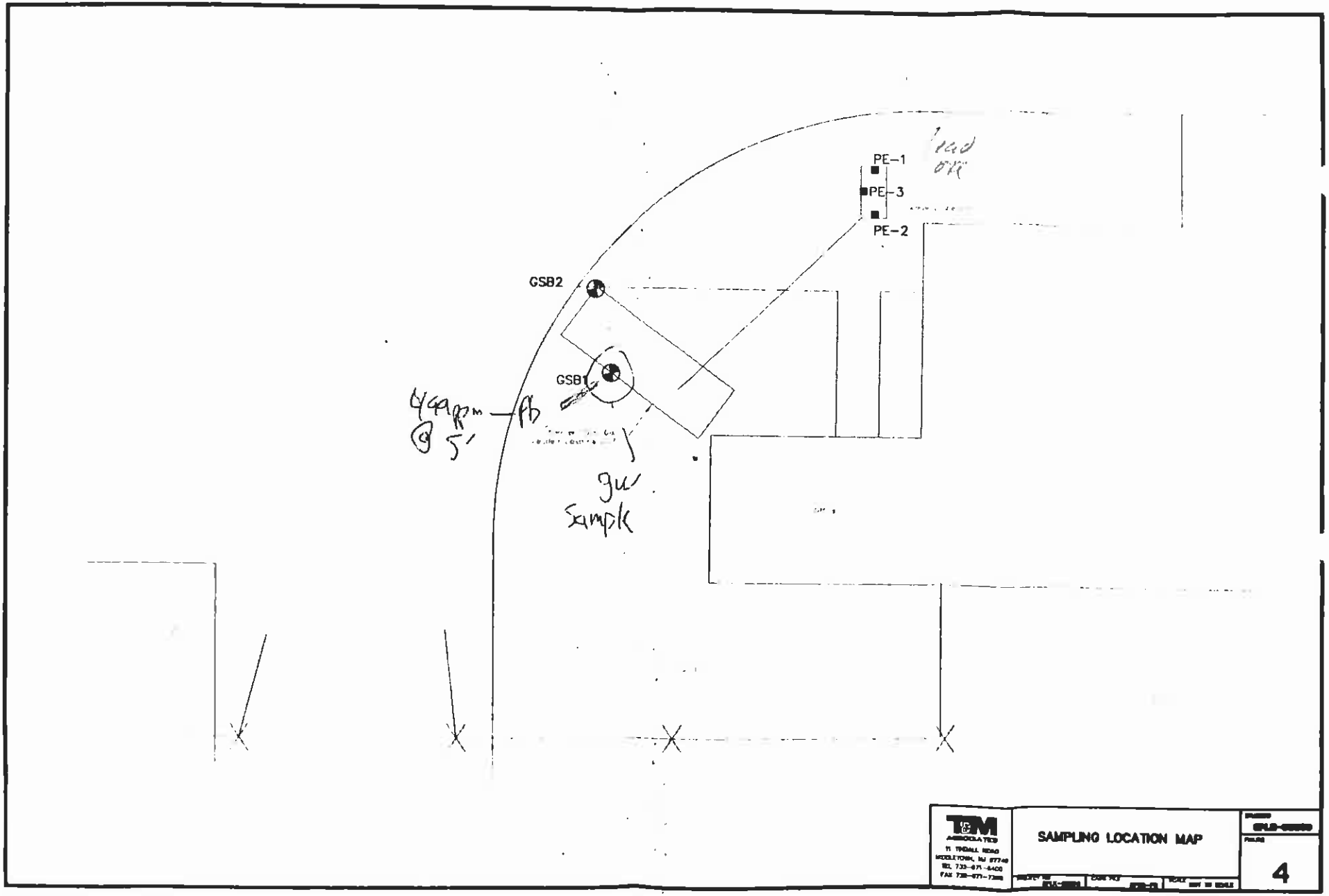
The New Jersey DEP Standards listed reflect current Envirotech Research Inc knowledge of the standards and are intended as general guidance for the user. Please consult appropriate NJDEP regulations and cleanup standards for your specific application

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	SB-4A 186631 03/01/00 SOLID NA mg/kg	SB-4B 186632 03/01/00 SOLID NA mg/kg	SB-5A 186633 03/01/00 SOLID NA mg/kg	SB-5B 186634 03/01/00 SOLID NA mg/kg	SB-6A 186635 03/01/00 SOLID NA mg/kg	SB-6B 186636 03/01/00 SOLID NA mg/kg
METALS Lead	400	600	NA	414	427	4.8 U	4.8 U	330	8410

Qualifiers
- U - The compound was not detected at the indicated concentration
- B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit
- N - The spiked sample recovery is not within control limits
- NR - Not analyzed

Figure 4B.
Soil Sample Locations Map





T&M ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7366

SAMPLING LOCATION MAP

4

Table 1. Area of Concern Soil Sampling Summary

Spring Lake Department of Public Works
Spring Lake, Monmouth County, New Jersey

Laboratory ID	Sample ID	AOC	Sampling Date	Depth of Sample (ft.)	PID (ppm)	Sampling Method	Analysis
140933	PE-1	1,000-GALLON LEADED GASOLINE	6/29/99	2	0	Grab	BTEX (GC/MS), Pb
140934	PE-2	1,000-GALLON LEADED GASOLINE	6/29/99	6	0	Grab	BTEX (GC/MS), Pb
140935	PE-3	1,000-GALLON LEADED GASOLINE	6/29/99	6	0	Grab	Pb
140936	TRIPBLANK	NA	6/28/99	NA	NA	NA	BTEX (GC/MS)
141748	GSB1-2	1,000-GALLON LEADED GASOLINE	7/2/99	2	0	Grab	Pb
141749	GSB1-5	1,000-GALLON LEADED GASOLINE	7/2/99	5	0	Grab	Pb
141750	GSB1-8	1,000-GALLON LEADED GASOLINE	7/2/99	8	0	Grab	Pb
141752	GSB2-2	1,000-GALLON LEADED GASOLINE	7/2/99	2	0	Grab	Pb
141753	GSB2-4	1,000-GALLON LEADED GASOLINE	7/2/99	4	27	Grab	Pb
141754	GSB2-8	1,000-GALLON LEADED GASOLINE	7/2/99	8	5	Grab	Pb

NOTES: NA = Not Applicable.
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
Pb = Lead.

TABLE 3
SOIL SAMPLING RESULTS-METALS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	PE-1 140933 06/29/99 SOLID NA mg/kg	PE-2 140934 06/29/99 SOLID NA mg/kg	PE-3 140935 06/29/99 SOLID NA mg/kg	GSB1-2 141748 07/02/99 SOLID NA mg/kg	GSB1-5 141749 07/02/99 SOLID NA mg/kg
METALS								
Lead	400	600	NA	346	7 4 B	153	102	[redacted]

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	GSB1-8 141750 07/02/99 SOLID NA mg/kg	GSB2-2 141752 07/02/99 SOLID NA mg/kg	GSB2-4 141753 07/02/99 SOLID NA mg/kg	GSB2-8 141754 07/02/99 SOLID NA mg/kg
METALS							
Lead	400	600	NA	38 3	135	74 0	123

Qualifiers

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

[redacted] Concentration exceeds one or more of the soil cleanup criteria

TABLE 2
SOIL SAMPLING RESULTS-VOLATILE ORGANIC COMPOUNDS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	PE-1 140933 06/29/99 SOLID 50.0 ug/Kg	PE-2 140934 06/29/99 SOLID 50.0 ug/Kg	PE-3 140935 06/29/99 SOLID	Trip_Blank 140936 06/29/99 SOLID 50.0 ug/Kg
VOLATILE COMPOUNDS (GC/MS)							
Benzene	3,000	13,000	1,000	190 U	140 U	NR	120 U
Toluene	1,000,000	1,000,000	500,000	940 U	680 U	NR	620 U
Ethylbenzene	1,000,000	1,000,000	100,000	750 U	550 U	NR	500 U
Xylene(Total)	410,000	1,000,000	10,000	940 U	680 U	NR	620 U
Total Confident Conc. VOAs (s)				0	0		0
Total Estimated Conc. VOA TICs (s)				0	0		0

Qualifiers

U - The compound was not detected at the indicated concentration

NR - Not analyzed

Soil Boring Log: SB-1

Project Name: Spring Lake E .ent of Public Works
Project Location. Fifth an Monmouth Avenues
Tax Map Address Block 26, Lot 1
ISRA (ECRA) Case Number: 98-11-12-0857-49
Drilling Method. Hollow stem auger
Driller. Shore Drilling, Inc
Boring Completion Date: March 1, 2000

Owner. Borough of Spring Lake
Boring Permit Number:
Project Number. SPLK-00060
Total Depth: 48.0 feet
Borehole Diameter: 2 inches
Sampling Method: Split-spoon
Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-	SB-1A			.5'-3.5 Sand and gravel.
-2-				
-3-				3.5'-5.5' Ash fill
-4-				
-5-				5.5'-8.0' Sand, clay and ash fill, with meadow mat at 8.0 feet
-6-				
-7-	SB-1B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-2

Project Name: Spring Lake Department of Public Works
Project Location: Fifth an Monmouth Avenues
Tax Map Address: Block 26, Lot 1
ISRA (ECRA) Case Number: 98-11-12-0857-49
Drilling Method: Hollow stem auger
Driller: Shore Drilling, Inc
Boring Completion Date: March 1, 2000

Owner: Borough of Spring Lake
Boring Permit Number:
Project Number: SPLK-00060
Total Depth: 48.0 feet
Borehole Diameter: 2 inches
Sampling Method: Split-spoon
Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-	SB-2A			.5'-3.5 Sand and gravel.
-2-				
-3-				3.5'-5.5' Ash fill.
-4-				
-5-				5.5'-8.0' Sand, clay and ash fill, with meadow mat at 8.0 feet.
-6-				
-7-	SB-2B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-3

Project Name: Spring Lake Department of Public Works	Owner: Borough of Spring Lake
Project Location: Fifth an Monmouth Avenues	Boring Permit Number:
Tax Map Address: Block 26, Lot 1	Project Number: SPLK-00060
ISRA (ECRA) Case Number: 98-11-12-0857-49	Total Depth: 48.0 feet
Drilling Method: Hollow stem auger	Borehole Diameter: 2 inches
Driller: Shore Drilling, Inc.	Sampling Method: Split-spoon
Boring Completion Date: March 1, 2000	Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				5'-3.5 Sand and gravel.
-2-				
-3-				
	SB-3A			3.5'-5.5' Ash fill
-4-				
-5-				
				5.5'-8.0' Sand, clay and ash fill, with meadow mat
-6-				at 8.0 feet.
-7-				
	SB-3B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-4

Project Name: Spring Lake Department of Public Works	Owner: Borough of Spring Lake
Project Location: Fifth an Monmouth Avenues	Boring Permit Number:
Tax Map Address: Block 26, Lot 1	Project Number: SPLK-00060
ISRA (ECRA) Case Number: 98-11-12-0857-49	Total Depth: 48.0 feet
Drilling Method: Hollow stem auger	Borehole Diameter: 2 inches
Driller: Shore Drilling, Inc.	Sampling Method: Split-spoon
Boring Completion Date: March 1, 2000	Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				.5'-3.5 Sand and gravel.
-2-				
-3-				
	SB-4A			3.5'-5.5' Ash fill.
-4-				
-5-				
				5.5'-8.0' Sand, clay and ash fill, with meadow mat
-6-				at 8.0 feet.
-7-				
	SB-4B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-5

Project Name: Spring Lake Department of Public Works
Project Location: Fifth an Monmouth Avenues
Tax Map Address: Block 26, Lot 1
ISRA (ECRA) Case Number: 98-11-12-0857-49
Drilling Method: Hollow stem auger
Driller: Shore Drilling, Inc
Boring Completion Date: March 1, 2000

Owner: Borough of Spring Lake
Boring Permit Number:
Project Number: SPLK-00060
Total Depth: 48.0 feet
Borehole Diameter: 2 inches
Sampling Method: Split-spoon
Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				0.5'-8.0' Clean sand with gravel.
-2-				
-3-	SB-5A			
-4-				
-5-				
-6-				
-7-	SB-5B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-6

Project Name: Spring Lake Department of Public Works
Project Location: Fifth an Monmouth Avenues
Tax Map Address: Block 26, Lot 1
ISRA (ECRA) Case Number: 98-11-12-0857-49
Drilling Method: Hollow stem auger
Driller: Shore Drilling, Inc.
Boring Completion Date: March 1, 2000

Owner: Borough of Spring Lake
Boring Permit Number:
Project Number: SPLK-00060
Total Depth: 48.0 feet
Borehole Diameter: 2 inches
Sampling Method: Split-spoon
Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				5'-3.5' Sand and gravel.
-2-				
-3-	SB-6A			3.5'-5.5' Ash fill
-4-				
-5-				5.5'-8.0' Sand, clay and ash fill, with meadow mat at 8.0 feet.
-6-				
-7-	SB-6B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Table 3 Summary of T.C.P.L Metals Soil Analytical Results 03/01/2000

Borough of Spring Lake Department of Public Works
Firth Avenue and Monmouth Avenue
Borough of Spring Lake, Monmouth County New Jersey

The New Jersey DEP Standards listed reflect current Envirotech Research Inc. knowledge of the standards and are intended as general guidance for the user. Please consult appropriate NJDEP regulations and cleanup standards for your specific application.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	SB-1B 190944 03/01/00 SOLID NA mg/l		SB-6B 190945 03/01/00 SOLID NA mg/l
METALS						
Arsenic	20	20	NA	0.12	U	0.26 B
Barium	700	47,000	NA	9.9		5.4
Cadmium	39	100	NA	0.008	B	0.03 B
Chromium	NA	NA	NA	0.017	U	0.017 U
Lead	400	600	NA	0.83		55.3
Mercury	14	270	NA	0.00010	U	0.00010 U
Selenium	63	3,100	NA	0.14	U	0.23 B
Silver	110	4,100	NA	0.017	U	0.017 U

Qualifiers

U - The compound was not detected at the indicated concentration
B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits
NR - Not analyzed

AOC Sheet
Updated 12-8-94

PHASE II AREA OF CONCERN TRACKING SHEET

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: 3 Area of Concern: former 2000 gal. diesel tank

Summary of Discovery of Discharge: none reported

Total number of tanks:

No. of Tanks:	1				
Size:	2000 gallon				
Contents:	diesel fuel				
Construction:	steel				
Age:					

Length of piping run: 60'

Number of Dispensers/pump islands: 1

Date Tanks Removed: 9/98

TMS No., if applicable: N95 HP

New Tanks in Excavation: NO

Waste Disposal Documentation: none required

Certified Clean Fill Documentation: attached

Parameters: VO__ TPHC__ BN__ PAH__ Naphthalene__ Pb__ PP METALS__ PCB__ PP+40__ Other ____

Results of Sampling: 4 perim @ 6.5' (D1-4,2,3,4) ~~NP~~ (grab @ 2' all for TPH ranged 33-297 ppm (D1-5)

SEE results & map w/ AOC 7

Remediation Required?: YES or NO If YES, Remediation under RAW Approval? YES or NO

Remedial Actions Required or Completed: none

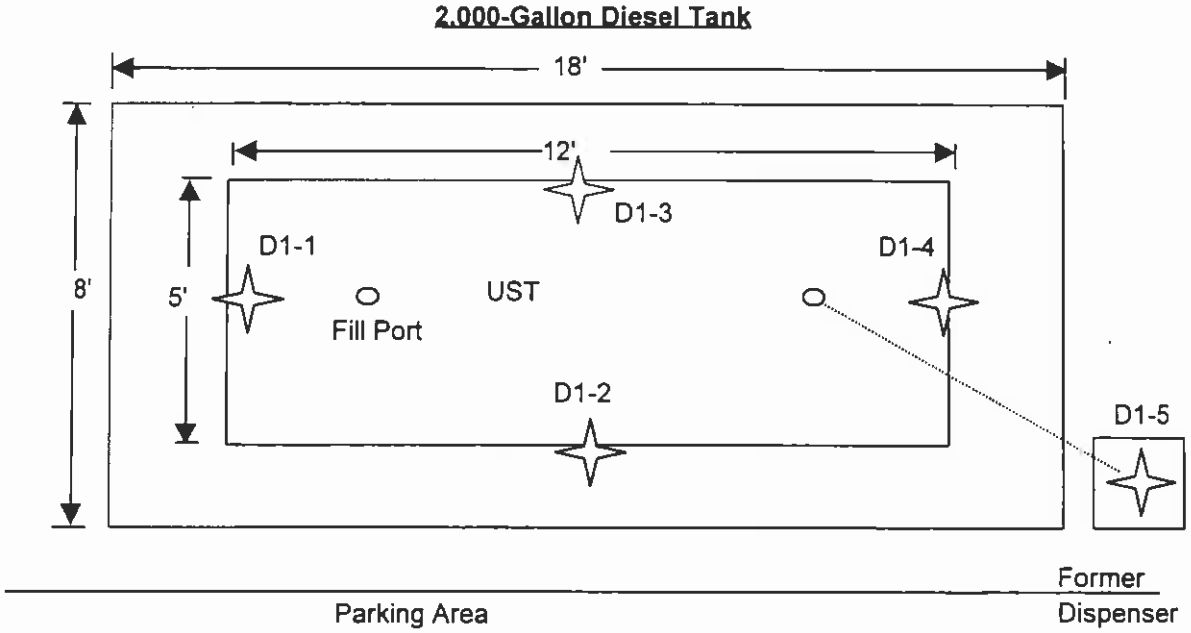
Final Outcome:

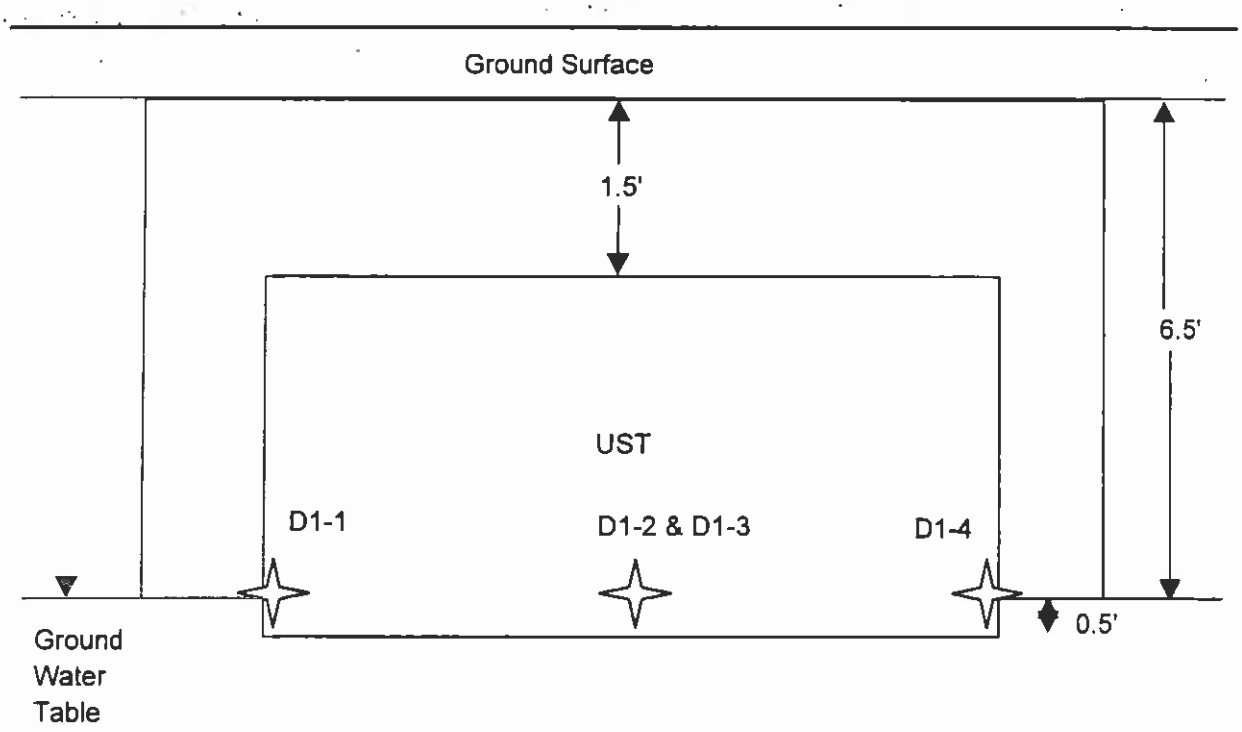
9/98 acceptable remained 12/99 NFA

"NFA" Approved: CM Initials [illegible] Date 12/1/99

per [illegible]

Figure 4C.
Soil Sample Locations Map





PHASE II AREA OF CONCERN TRACKING SHEET

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: 4 Area of Concern: former heating oil tank

Summary of Discovery of Discharge: none reported

Total number of tanks:

No. of Tanks:	1				
Size:	2,000				
Contents:	fuel oil				
Construction:	steel				
Age:					

Length of piping run: NA

Number of Dispensers/pump islands: NA

Date Tanks Removed: 9/94

TMS No., if applicable: N98-7101

New Tanks in Excavation: NO

Waste Disposal Documentation: None required

Certified Clean Fill Documentation: accepted

Parameters: VO___ TPHC X BN___ PAH___ Naphthalene___ Pb___ PP METALS___ PCB___ PP+40___ Other _____

Results of Sampling: water table at 4' bgs in ex (@ 6.5' (FO-5) 16 ppm (21) and/or TPH range 315-827 (FO-1,2,3,4) see results of may w/AOC 7

Remediation Required?: YES or NO If YES, Remediation under RAW Approval? YES or NO

Remedial Actions Required or Completed: none

Final Outcome:

9/94 accepted, closed 12/99

"NFA" Approved: CM Initials CM Date 12/1/99

OK BK

PHASE II AREA OF CONCERN TRACKING SHEET

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: 5 Area of Concern: former fuel oil tank

Summary of Discovery of Discharge: none reported

Total number of tanks: 1

No. of Tanks:	1				
Size:	~~1000~~ 500 gal				
Contents:	fuel oil				
Construction:	steel				
Age:					

Length of piping run: NA

Number of Dispensers/pump islands: NA

Date Tanks Removed: 9/98

TMS No., if applicable: N98-1K1

New Tanks in Excavation: NA

Waste Disposal Documentation: none (manifest)

Certified Clean Fill Documentation: Accepted N/A

Parameters: VO___ TPHC___ BN___ PAH___ Naphthalene___ Pb___ PP METALS___ PCB___ PP+40___ Other ____

Results of Sampling: West to East 2 Post-Ex @ 6.5' analyzed for TPH range 25.9 - 50.1 (FCJ-1a)

See Reports w/ AOC 1

Remediation Required?: YES or NO If YES, Remediation under RAW Approval? YES or NO

Remedial Actions Required or Completed: None

Final Outcome: Accepted as reviewed 12/2/99 USH

"NFA" Approved: CM Initials CM Date 12/2/99

AOC Sheet
Updat d 12-9-94

PHASE II AREA OF CONCERN TRACKING SHEET

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: 10 Area of Concern: former waste oil tank

Summary of Discovery of Discharge: none reported

Total number of tanks: 1

No. of Tanks:	1				
Size:	1000				
Contents:	w/oil/chips				
Construction:	steel				
Age:					

Length of piping run: ~ 10' | Number of Dispensers/pump islands: 1

Date Tanks Removed: 9/95 | TMS No., if applicable: NRS-1101

New Tanks in Excavation: NO

Waste Disposal Documentation: nothing Manifest | Certified Clean Fill Documentation: receipt

Parameters: VO__ TPHC__ BN__ PAH__ Naphthalene__ Pb__ PP METALS__ PCB__ PP+40__ Other ____

Results of Sampling: 3 soil ex collected @ ~~6'~~ 6.5', 1 piping @ 3' analyzed for VO no exceedance see map & results w/AOC 7 attached
(G2-1,2,3) (G2-4)

Remediation Required?: YES or NO | If YES, Remediation under RAW Approval? YES or NO

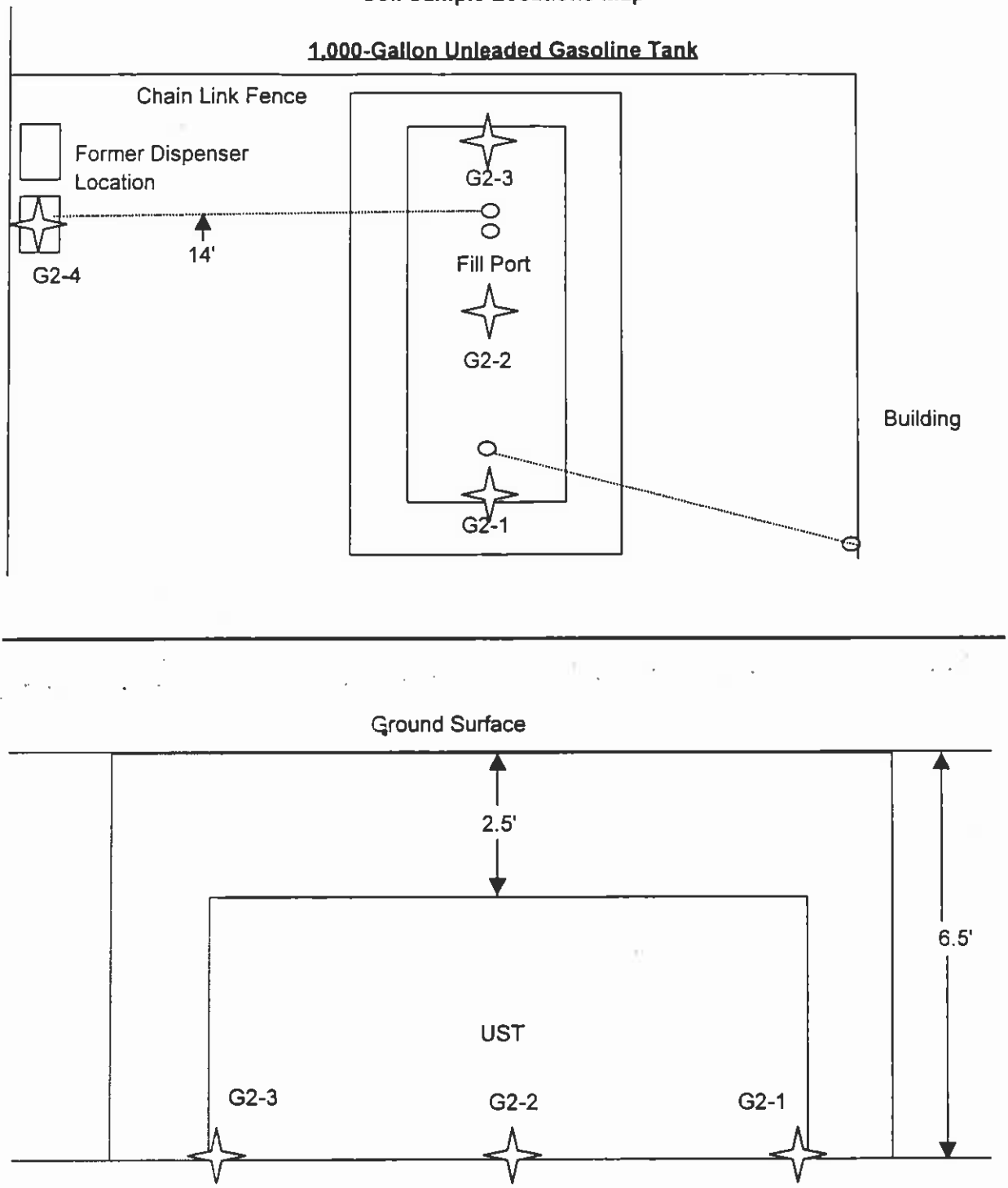
Remedial Actions Required or Completed: none

Final Outcome: report accepted reviewed 12/95 NFA

"NFA" Approved: CM Initials RD Date 12/11/95

OK. MM

Figure 4E.
Soil Sample Locations Map



AOC Sheet
Updated 12-9-94

PHASE II AREA OF CONCERN TRACKING SHEET

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: 7 Area of Concern: former diesel tank

Summary of Discovery of Discharge: none reported

Total number of tanks:

No. of Tanks:	1				
Size:	1000				
Contents:	diesel				
Construction:	steel				
Age:					

Length of piping run: 5' | Number of Dispensers/pump islands: 1

Date Tanks Removed: 9/98 | TMS No., if applicable: 1998-1101

New Tanks in Excavation: no

Waste Disposal Documentation: none required | Certified Clean Fill Documentation: accepted by

Parameters: VO X TPHC X BN__ PAH__ Naphthalene__ Pb__ PP METALS__ PCB__ PP+40__ Other _____

Results of Sampling: 3 petrox @ 7.5' + 1 piping @ 2' combined TPH: range 31-84 ppm see attached
(02-1,2,3) (02-4)

Remediation Required?: YES or NO If YES, Remediation under RAW Approval? YES or NO

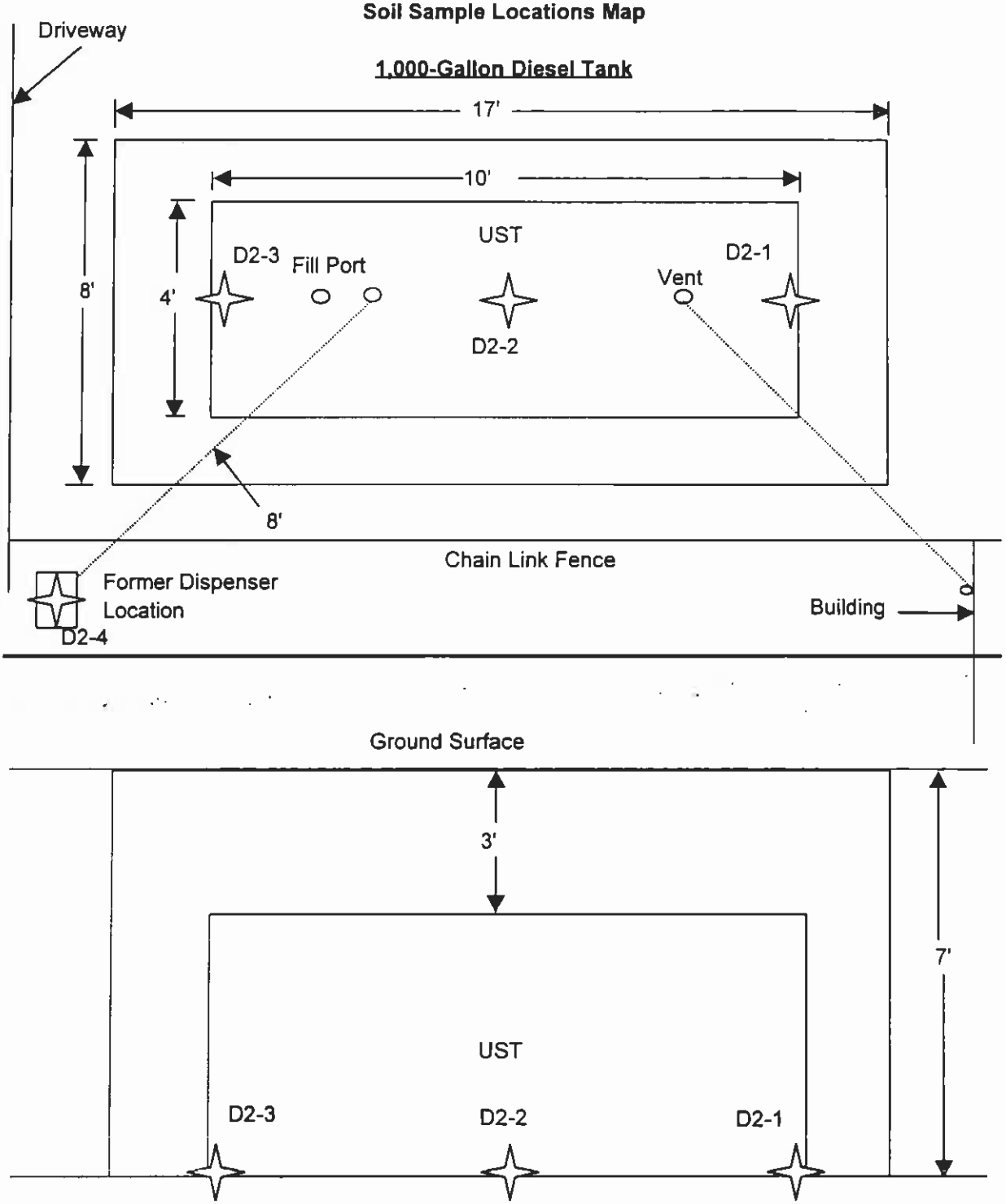
Remedial Actions Required or Completed: None

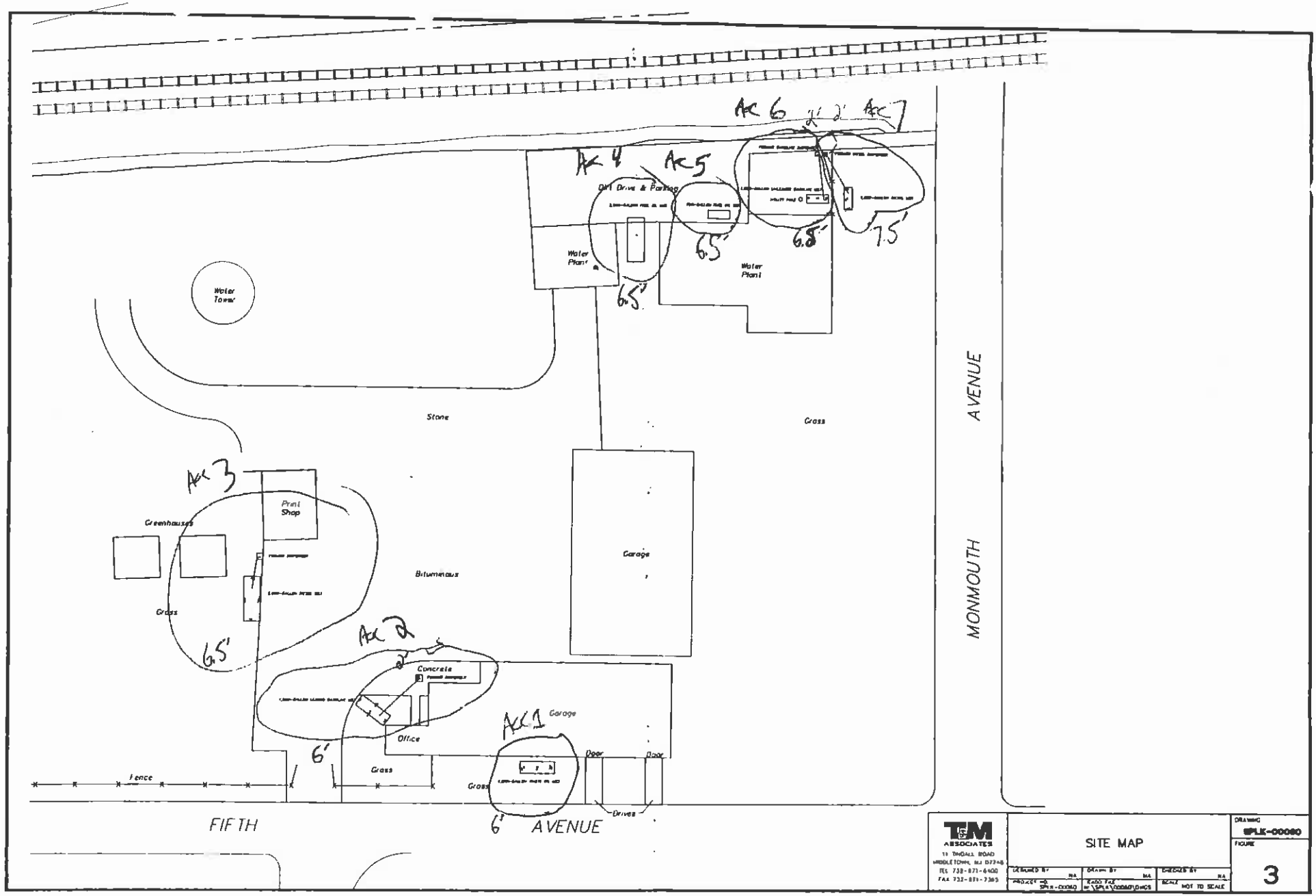
Final Outcome: petrox accepted received 12/1/99 NFA

"NFA" Approved: CM Initials RL Date 12/1/99

Figure 4D.

Soil Sample Locations Map





TM ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

SITE MAP

DRAWN BY: NA
DRAWN BY: NA
CHECKED BY: NA
PROJECT #: SPLK-00080
SCALE: NOT TO SCALE

DRAWING: SPLK-00080
FIGURE: 3

7 tanks

Table 1. Area of Concern Soil Sampling Summary

Spring Lake Department of Public Works
Spring Lake, Monmouth County, New Jersey

Laboratory ID	Sample ID	AOC	Sampling Date	Depth of Sample (ft.)	PID (ppm)	Sampling Method	Analysis
82660	WO-1	1,000-GALLON WASTE OIL	9/8/98	6	0	Grab	PHC
82661	WO-2	1,000-GALLON WASTE OIL	9/8/98	6	0	Grab	PHC, PP+40
82662	WO-3	1,000-GALLON WASTE OIL	9/8/98	6	0	Grab	PHC
82663	G1-1	1,000-GALLON LEADED GASOLINE	9/8/98	6	0	Grab	PPVOA+15, Pb
82664	G1-2	1,000-GALLON LEADED GASOLINE	9/8/98	6	0	Grab	PPVOA+15, Pb
82665	G1-3	1,000-GALLON LEADED GASOLINE	9/8/98	6	0	Grab	PPVOA+15, Pb
82666	G1-4	1,000-GALLON LEADED GASOLINE	9/8/98	6	0	Grab	PPVOA+15, Pb
82667	TRIPBLANK	NA	9/8/98	NA	NA	NA	PPVOA+15
82805	D1-1	FIRST 2,000-GALLON DIESEL	9/9/98	6.5	0	Grab	PHC
82806	D1-2	FIRST 2,000-GALLON DIESEL	9/9/98	6.5	0	Grab	PHC
82807	D1-3	FIRST 2,000-GALLON DIESEL	9/9/98	6.5	0	Grab	PHC
82808	D1-4	FIRST 2,000-GALLON DIESEL	9/9/98	6.5	0	Grab	PHC
82809	D1-5	FIRST 2,000-GALLON DIESEL	9/9/98	2	0	Grab	PHC
82810	F0-1	2,000-GALLON FUEL OIL*	9/9/98	6.5	0	Grab	PHC
82811	F0-2	2,000-GALLON FUEL OIL*	9/9/98	6.5	0	Grab	PHC
82812	F0-3	2,000-GALLON FUEL OIL*	9/9/98	6.5	1.6	Grab	PHC
82813	F0-4	2,000-GALLON FUEL OIL*	9/9/98	6.5	0	Grab	PHC
82814	F0-5	2,000-GALLON FUEL OIL*	9/9/98	2	0	Grab	PHC
83553	D2-1	~~SECOND~~ 2,000-GALLON DIESEL	9/10/98	7-7.5	0.3	Grab	PHC
83554	D2-2	~~SECOND~~ 2,000-GALLON DIESEL	9/10/98	7-7.5	4.2	Grab	PHC
83555	D2-3	~~SECOND~~ 2,000-GALLON DIESEL	9/10/98	7-7.5	0	Grab	PHC
83556	D2-4	~~SECOND~~ 2,000-GALLON DIESEL	9/10/98	2	0	Grab	PHC
83557	G2-1	1,000-GALLON UNLEADED GASOLINE	9/10/98	6.5	0.4	Grab	PPVOA+10, Pb
83558	G2-2	1,000-GALLON UNLEADED GASOLINE	9/10/98	6.5	0.2	Grab	PPVOA+10, Pb
83559	G2-3	1,000-GALLON UNLEADED GASOLINE	9/10/98	6.5	0.4	Grab	PPVOA+10, Pb
83560	G2-4	1,000-GALLON UNLEADED GASOLINE	9/10/98	2	0.3	Grab	PPVOA+10, Pb
83562	FO2-1	750-GALLON FUEL OIL*	9/11/98	6.5	0.6	Grab	PHC
83563	FO2-2	750-GALLON FUEL OIL*	9/11/98	6.5	0.5	Grab	PHC
83564	G1-5	1,000-GALLON LEADED GASOLINE	9/11/98	2	125	Grab	PPVOA+10, Pb
83561	TRIPBLANK	NA	9/10/98	NA	NA	NA	PPVOA+10

NOTES:
NA = Not Applicable.
VOA = Volatiles
PP = Priority Pollutant.
PHC = Total Petroleum Hydrocarbons
* = Unregulated Underground Storage Tank

TABLE 2
TOTAL PETROLEUM HYDROCARBONS (TPH)
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097366

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	WD-1	WD-2	WD-3	G1-1	G1-2	G1-3	G1-4	G1-5
Lab Sample Number				82660	82661	82662	82663	82664	82665	82666	83564
Sampling Date				09/09/98	09/09/98	09/09/98	09/09/98	09/09/98	09/09/98	09/09/98	09/11/98
Matrix				SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor				1.0	1.0	1.0					
Units				mg/kg	mg/kg	mg/kg					
WET CHEMISTRY											
TotalPetroleumHydrocarbons(1418.1)(1)	NA	NA	NA	33.4	47.9	30.6	NR	NR	NR	NR	NR

Qualifiers
U - The compound was not detected at the indicated concentration.
NR - Not analyzed.

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	D1-1	D1-2	D1-3	D1-4	D1-5	FD-1	FD-2	FD-3	FD-4	FD-5
Lab Sample Number				82605	82606	82607	82608	82609	82610	82611	82612	82613	82614
Sampling Date				09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98
Matrix				SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
WET CHEMISTRY													
TotalPetroleumHydrocarbons(1418.1)(1)	NA	NA	NA	191	150	37.8	33.2	297	50.5	31.5	74.3	72.1	87.7

Qualifiers
U - The compound was not detected at the indicated concentration.
NR - Not analyzed.

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	D2-1	D2-2	D2-3	D2-4
Lab Sample Number				83553	83554	83555	83556
Sampling Date				09/10/98	09/10/98	09/10/98	09/10/98
Matrix				SOLID	SOLID	SOLID	SOLID
Dilution Factor				1.0	1.0	1.0	1.0
Units				mg/kg	mg/kg	mg/kg	mg/kg
WET CHEMISTRY							
TotalPetroleumHydrocarbons(1418.1)(1)	NA	NA	NA	38.9	44.1	43.1	37.9

Qualifiers
U - The compound was not detected at the indicated concentration.
NR - Not analyzed.

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	G2-1	G2-2	G2-3	G2-4	FD2-1	FD2-2
Lab Sample Number				83557	83558	83559	83560	83562	83563
Sampling Date				09/10/98	09/10/98	09/10/98	09/10/98	09/11/98	09/11/98
Matrix				SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor								1.0	1.0
Units								mg/kg	mg/kg
WET CHEMISTRY									
TotalPetroleumHydrocarbons(1418.1)(1)	NA	NA	NA	NR	NR	NR	NR	29.9	50.1

Qualifiers
U - The compound was not detected at the indicated concentration.
NR - Not analyzed.

TABLE 3A
VOLATILE ORGANIC COMPOUNDS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID		New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	WD-1	WD-2	WD-3	G1-1	G1-2	G1-3	G1-4	Trip_Blank	G1-5
Lab Sample Number		Direct Contact	Direct Contact	Ground Water	82660	82661	82662	82663	82664	82665	82666	82667	83564
Sampling Date		Soil Cleanup	Soil Cleanup	Soil Cleanup	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/11/98
Matrix		Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor						50.0		50.0	50.0	50.0	50.0	50.0	500.0
Units						ug/kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILE COMPOUNDS (GC/MS)													
	Chloromethane	520,000	1,000,000	10,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Bromomethane	79,000	1,000,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	VinylChloride	2,000	7,000	10,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Chloroethane	NA	NA	NA	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	MethyleneChloride	49,000	210,000	1,000	NR	380 U	NR	410 U	420 U	420 U	390 U	380 U	4100 U
	Trichlorofluoromethane	NA	NA	NA	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	1,1-Dichloroethene	6,000	150,000	10,000	NR	250 U	NR	270 U	280 U	280 U	260 U	250 U	2700 U
	1,1-Dichloroethane	570,000	1,000,000	10,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	trans-1,2-Dichloroethene	1,000,000	1,000,000	50,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	cis-1,2-Dichloroethene	79,000	1,000,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Chloroform	19,000	28,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	1,2-Dichloroethane	6,000	24,000	1,000	NR	250 U	NR	270 U	280 U	280 U	260 U	250 U	2700 U
	1,1,1-Trichloroethane	210,000	1,000,000	50,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	CarbonTetrachloride	2,000	4,000	1,000	NR	250 U	NR	270 U	280 U	280 U	260 U	250 U	2700 U
	Bromodichloromethane	11,000	46,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
	1,2-Dichloropropane	10,000	43,000	NA	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
(1)	cis-1,3-Dichloropropene	4,000	5,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Trichloroethene	23,000	54,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
	Dibromochloromethane	110,000	1,000,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	1,1,2-Trichloroethane	22,000	420,000	1,000	NR	380 U	NR	410 U	420 U	420 U	390 U	380 U	4100 U
	Benzene	3,000	13,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
(1)	trans-1,3-Dichloropropene	4,000	5,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	2-ChloroethylVinylEther	NA	NA	NA	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Bromoform	86,000	370,000	1,000	NR	500 U	NR	540 U	560 U	560 U	520 U	500 U	5400 U
	Tetrachloroethene	4,000	8,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
	1,1,2,2-Tetrachloroethane	34,000	70,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
	Toluene	1,000,000	1,000,000	500,000	NR	160 J	NR	140 J	700 U	710 U	650 U	620 U	6800 U
	Chlorobenzene	37,000	680,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Ethylbenzene	1,000,000	1,000,000	100,000	NR	500 U	NR	78 J	560 U	560 U	520 U	500 U	4700 J
	Xylene(Total)	410,000	1,000,000	10,000	NR	630 U	NR	340 J	700 U	710 U	650 U	620 U	90000
Total Confident Conc. VOAs (a)						0		0	0	0	0	0	90000
Total Estimated Conc. VOA TICs (a)						0		1400	760	0	1600	0	717000

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

6,800U - The compound was not detected at the indicated concentration and the Method Detection Limit (MDL) exceeds the most stringent Soil Cleanup Criteria.

Concentration exceeds one or more of the soil cleanup criteria.

TABLE 3B
VOLATILE ORGANIC COMPOUNDS (continued)
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID	New Jersey Residential	New Jersey Non-Residentia	New Jersey Impact t	D2-1	D2-2	D2-3	D2-4	G2-1	G2-2	G2-3	G2-4	F02-1	F02-2	Trip_Blank
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	83553	83554	83555	83556	83557	83558	83559	83560	83562	83563	83561
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/11/98	09/11/98	09/10/98
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor								50.0	50.0	50.0	50.0			50.0
Units								ug/kg	ug/kg	ug/kg	ug/kg			ug/kg
VOLATILE COMPOUNDS (GC/MS)														
Chloromethane	520,000	1,000,000	10,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Bromomethane	79,000	1,000,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
VinylChloride	2,000	7,000	10,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Chloroethane	NA	NA	NA	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
MethyleneChloride	48,000	210,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Trichlorofluoromethane	NA	NA	NA	NR	NR	NR	NR	420 U	370 U	400 U	450 U	NR	NR	380 U
1,1-Dichloroethene	8,000	150,000	10,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
1,1-Dichloroethane	570,000	1,000,000	10,000	NR	NR	NR	NR	280 U	250 U	260 U	300 U	NR	NR	250 U
trans-1,2-Dichloroethene	1,000,000	1,000,000	50,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
cis-1,2-Dichloroethene	79,000	1,000,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Chloroform	19,000	26,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
1,2-Dichloroethane	8,000	24,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
1,1,1-Trichloroethane	210,000	1,000,000	50,000	NR	NR	NR	NR	280 U	250 U	260 U	300 U	NR	NR	250 U
CarbonTetrachloride	2,000	4,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Bromodichloromethane	11,000	46,000	1,000	NR	NR	NR	NR	280 U	250 U	260 U	300 U	NR	NR	250 U
1,2-Dichloropropane	19,000	43,000	NA	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
(1) cis-1,3-Dichloropropene	4,000	5,000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
Trichloroethene	23,000	54,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Dibromochloromethane	110,000	1,000,000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
1,1,2-Trichloroethane	22,000	420,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Benzene	3,000	13,000	1,000	NR	NR	NR	NR	420 U	370 U	400 U	450 U	NR	NR	380 U
(1) trans-1,3-Dichloropropene	4,000	5,000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	180	NR	NR	120 U
2-ChloroethylVinylEther	NA	NA	NA	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Bromoform	88,000	370,000	1,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Tetrachloroethene	4,000	8,000	1,000	NR	NR	NR	NR	560 U	490 U	530 U	600 U	NR	NR	500 U
1,1,2,2-Tetrachloroethane	34,000	70,000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
Toluene	1,000,000	1,000,000	500,000	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
Chlorobenzene	37,000	680,000	1,000	NR	NR	NR	NR	220 J	120 J	120 J	1900	NR	NR	120 U
Ethylbenzene	1,000,000	1,000,000	100,000	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Xylene(Total)	410,000	1,000,000	10,000	NR	NR	NR	NR	560 U	490 U	530 U	610	NR	NR	500 U
Total Confident Conc. VOAs (s)								340 J	99 J	130 J	3300	NR	NR	620 U
Total Estimated Conc. VOA TICs (s)								0	0	0	5990			0
								0	0	0	4600			0

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

TABLE 4
SEMI-VOLATILE COMPOUNDS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # [redacted]

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	WD-1 [redacted] 09/08/98 SOLID	WD-2 [redacted] 09/08/98 SOLID 1 D ug/kg	WD-3 [redacted] 09/08/98 SOLID	G1-1 [redacted] 09/08/98 SOLID	G1-2 [redacted] 09/08/98 SOLID	G1-3 [redacted] 09/08/98 SOLID	G1-4 [redacted] 09/08/98 SOLID
SEMIVOLATILE COMPOUNDS (GC/MS)											
	Phenol	10,000,000	10,000,000	50,000	NR	380 U	NR	NR	NR	NR	NR
	2-Chlorophenol	280,000	5,200,000	10,000	NR	380 U	NR	NR	NR	NR	NR
	2-Nitrophenol	NA	NA	NA	NR	380 U	NR	NR	NR	NR	NR
	2,4-Dimethylphenol	1,100,000	10,000,000	10,000	NR	380 U	NR	NR	NR	NR	NR
	2,4-Dichlorophenol	170,000	3,100,000	10,000	NR	380 U	NR	NR	NR	NR	NR
	4-Chloro-3-methylphenol	10,000,000	10,000,000	100,000	NR	380 U	NR	NR	NR	NR	NR
	2,4,6-Trichlorophenol	62,000	270,000	10,000	NR	380 U	NR	NR	NR	NR	NR
	2,4-Dinitrophenol	110,000	2,100,000	10,000	NR	1800 U	NR	NR	NR	NR	NR
	4-Nitrophenol	NA	NA	NA	NR	1800 U	NR	NR	NR	NR	NR
	4,6-Dinitro-2-methylphenol	NA	NA	NA	NR	1800 U	NR	NR	NR	NR	NR
	Pentachlorophenol	6,000	24,000	100,000	NR	1800 U	NR	NR	NR	NR	NR
	N-Nitrosodimethylamine	NA	NA	NA	NR	380 U	NR	NR	NR	NR	NR
	bis(2-Chloroethyl)ether	660	3,000	10,000	NR	38 U	NR	NR	NR	NR	NR
	1,3-Dichlorobenzene	5,100,000	10,000,000	100,000	NR	380 U	NR	NR	NR	NR	NR
	1,4-Dichlorobenzene	570,000	10,000,000	100,000	NR	380 U	NR	NR	NR	NR	NR
	1,2-Dichlorobenzene	5,100,000	10,000,000	50,000	NR	380 U	NR	NR	NR	NR	NR
	bis(2-chloroisopropyl)ether	2,300,000	10,000,000	10,000	NR	380 U	NR	NR	NR	NR	NR
	N-Nitroso-di-n-propylamine	660	660	10,000	NR	38 U	NR	NR	NR	NR	NR
	Hexachloroethane	6,000	100,000	100,000	NR	38 U	NR	NR	NR	NR	NR
	Nitrobenzene	28,000	520,000	10,000	NR	38 U	NR	NR	NR	NR	NR
	Isophorone	1,100,000	10,000,000	50,000	NR	380 U	NR	NR	NR	NR	NR
	bis(2-Chloroethoxy)methane	NA	NA	NA	NR	380 U	NR	NR	NR	NR	NR
	1,2,4-Trichlorobenzene	68,000	1,200,000	100,000	NR	38 U	NR	NR	NR	NR	NR
	Naphthalene	230,000	4,200,000	100,000	NR	8.5 J	NR	NR	NR	NR	NR
	Hexachlorobutadiene	1,000	21,000	100,000	NR	79 U	NR	NR	NR	NR	NR
	Hexachlorocyclopentadiene	400,000	7,300,000	100,000	NR	380 U	NR	NR	NR	NR	NR
	2-Chloronaphthalene	NA	NA	NA	NR	380 U	NR	NR	NR	NR	NR
	Dimethylphthalate	10,000,000	10,000,000	50,000	NR	380 U	NR	NR	NR	NR	NR
	Acenaphthylene	NA	NA	NA	NR	19 J	NR	NR	NR	NR	NR
(1)	2,6-Dinitrotoluene	1,000	4,000	10,000	NR	79 U	NR	NR	NR	NR	NR
	Acenaphthene	3,400,000	10,000,000	100,000	NR	22 J	NR	NR	NR	NR	NR
(1)	2,4-Dinitrotoluene	1,000	4,000	10,000	NR	79 U	NR	NR	NR	NR	NR
	Diethylphthalate	10,000,000	10,000,000	50,000	NR	380 U	NR	NR	NR	NR	NR
	4-Chlorophenyl-phenylether	NA	NA	NA	NR	380 U	NR	NR	NR	NR	NR
	Fluorene	2,300,000	10,000,000	100,000	NR	38 J	NR	NR	NR	NR	NR
	N-Nitrosodiphenylamine	140,000	900,000	100,000	NR	380 U	NR	NR	NR	NR	NR
	4-Bromophenyl-phenylether	NA	NA	NA	NR	380 U	NR	NR	NR	NR	NR
	Hexachlorobenzene	660	2,000	100,000	NR	350 U	NR	NR	NR	NR	NR
	Phenanthrene	NA	NA	NA	NR	38 U	NR	NR	NR	NR	NR
	Anthracene	10,000,000	10,000,000	100,000	NR	300 J	NR	NR	NR	NR	NR
	Di-n-butylphthalate	5,700,000	10,000,000	100,000	NR	58 J	NR	NR	NR	NR	NR
	Fluoranthene	2,300,000	10,000,000	100,000	NR	380 U	NR	NR	NR	NR	NR
	Pyrene	1,700,000	10,000,000	100,000	NR	380 J	NR	NR	NR	NR	NR
	Benzidine	NA	NA	NA	NR	1800 U	NR	NR	NR	NR	NR
	Butylbenzylphthalate	1,100,000	10,000,000	100,000	NR	380 U	NR	NR	NR	NR	NR
	3,3'-Dichlorobenzidine	2,000	6,000	100,000	NR	790 U	NR	NR	NR	NR	NR
	Benzo(a)anthracene	900	4,000	500,000	NR	170	NR	NR	NR	NR	NR
	Chrysene	9,000	40,000	500,000	NR	210 J	NR	NR	NR	NR	NR
	bis(2-Ethylhexyl)phthalate	46,000	210,000	100,000	NR	380 U	NR	NR	NR	NR	NR
	Di-n-octylphthalate	1,100,000	10,000,00	100,000	NR	380 U	NR	NR	NR	NR	NR
	Benzo(b)fluoranthene	900	4,000	50,000	NR	220	NR	NR	NR	NR	NR
	Benzo(k)fluoranthene	900	4,000	500,000	NR	100	NR	NR	NR	NR	NR
	Benzo(a)pyrene	660	660	100,000	NR	170	NR	NR	NR	NR	NR
	Indeno(1,2,3-cd)pyrene	900	4,000	500,000	NR	120	NR	NR	NR	NR	NR
	Dibenz(a,h)anthracene	660	660	100,000	NR	35 J	NR	NR	NR	NR	NR
	Benzo(g,h,i)perylene	NA	NA	NA	NR	110 J	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)						780					
Total Estimated Conc. BNA TICs (s)						7100					

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture.

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1998 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gimello.

Qualifiers

U - The compound was not detected at the reported concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicated possible laboratory contamination of the environmental sample.

NR - Not analyzed.

TABLE 5
METALS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 9097348

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	WO-1	WO-2		WO-3	G1-1	G1-2	G1-3	G1-4
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	82680	82681		82682	82683	82684	82685	82686
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/08/98	09/08/98		09/08/98	09/08/98	09/08/98	09/08/98	09/08/98
Matrix	Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	SOLID	SOLID		SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor					NA						
Units					mg/kg						
METALS											
Antimony	14	340	NA	NR	1.0	U	NR	NR	NR	NR	NR
Arsenic	20	20	NA	NR	1.0	U	NR	NR	NR	NR	NR
Beryllium	1	1	NA	NR	0.08	U	NR	NR	NR	NR	NR
Cadmium	1	100	NA	NR	0.084	U	NR	NR	NR	NR	NR
Chromium	NA	NA	NA	NR	4.4		NR	NR	NR	NR	NR
Copper	600	600	NA	NR	5.2	B	NR	NR	NR	NR	NR
Lead	400	800	NA	NR	25.2		NR	[redacted] 6'	80.3	274	258
Mercury	14	270	NA	NR	0.02	U	NR	NR	NR	NR	NR
Nickel	250	2,400	NA	NR	1.1	B	NR	NR	NR	NR	NR
Selenium	63	3,100	NA	NR	0.99	U	NR	NR	NR	NR	NR
Silver	110	4,100	NA	NR	0.33	U	NR	NR	NR	NR	NR
Thallium	2	2	NA	NR	1.1	U	NR	NR	NR	NR	NR
Zinc	1,500	1,500	NA	NR	34.9		NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	D2-1	D2-2		D2-3	D2-4	G2-1	G2-2	G2-3	G2-4	FD2-1	FD2-2	G1-5
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	83553	83554		83555	83556	83557	83558	83559	83560	83562	83563	83564
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/10/98	09/10/98		09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/11/98	09/11/98	09/11/98
Matrix	Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	SOLID	SOLID		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor									NA	NA	NA	NA			NA
Units									mg/kg	mg/kg	mg/kg	mg/kg			mg/kg
METALS															
Lead	400	800	NA	NR	NR		NR	NR	21.0	23.4	18.6	85.3	NR	NR	[redacted] 2'

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

[redacted] Concentration exceeds one or more of the soil cleanup criteria.

TABLE 6
PESTICIDES/PCB'S
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	WO-1 82660 09/08/98 SOLID	WO-2 82661 09/08/98 SOLID 10 ug/kg	WO-3 82662 09/08/98 SOLID	G1-1 82663 09/08/98 SOLID	G1-2 82664 09/08/98 SOLID	G1-3 82665 09/08/98 SOLID	G1-4 82666 09/08/98 SOLID
PESTICIDES/PCBs										
(1) Aroclor-1016	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1221	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1232	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1242	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1248	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1254	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1260	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1262	NA	NA	NA	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1268	NA	NA	NA	NR	79 U	NR	NR	NR	NR	NR

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to confirming interference.

NR - Not analyzed.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	WO-1 82660 09/08/98 SOLID	WO-2 82661 09/08/98 SOLID 10 ug/kg	WO-3 82662 09/08/98 SOLID	G1-1 82663 09/08/98 SOLID	G1-2 82664 09/08/98 SOLID	G1-3 82665 09/08/98 SOLID	G1-4 82666 09/08/98 SOLID
PESTICIDES/PCBs										
Aldrin	40	170	50,000	NR	7.9 U	NR	NR	NR	NR	NR
alpha-BHC	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
beta-BHC	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
delta-BHC	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
gamma-BHC(Lindane)	520	2,200	50,000	NR	7.9 U	NR	NR	NR	NR	NR
Chlordane	NA	NA	NA	NR	79 U	NR	NR	NR	NR	NR
4,4'-DDD	3,000	12,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
4,4'-DDE	2,000	8,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
4,4'-DDT	2,000	8,000	500,000	NR	7.9 U	NR	NR	NR	NR	NR
Dieldrin	42	180	50,000	NR	7.9 U	NR	NR	NR	NR	NR
(2) Endosulfan I	340,000	6,200,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
(2) Endosulfan II	340,000	6,200,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
Endosulfansulfate	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
Endrin	17,000	310,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
Endrinaldehyde	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
Heptachlor	150	650	50,000	NR	7.9 U	NR	NR	NR	NR	NR
Heptachlorepoxide	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
Toxaphene	100	200	50,000	NR	79 U	NR	NR	NR	NR	NR

(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I or Endosulfan II.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to confirming interference.

NR - Not analyzed.

PHASE II AREA OF CONCERN TRACKING SHEET

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: D Medium of Concern: GROUND WATER

Formation: Kirkwood	Depth to Ground Water: 6'
Flow Direction:	Fracture Flow:
Number of Overburden Wells: one well per AOC	Number of Bedrock Wells:
Well within 10' of source: yes	Screening Intervals:
Screening Intervals Acceptable:	If No, List Wells:
Free Product Present: no	If Yes, List Wells, Date & Amount:

Parameters: VO X BN___ PAH___ MTBE___ TBA___ Naphthalene___ Pb X PP METALS___ PCB___ PP+40___ Other _____

Results of Sampling: 7/99 2" monitoring point inst @ leaded gas tank analyzed VOC + Pb only lead exceeds @ 47.7 ppb See attached

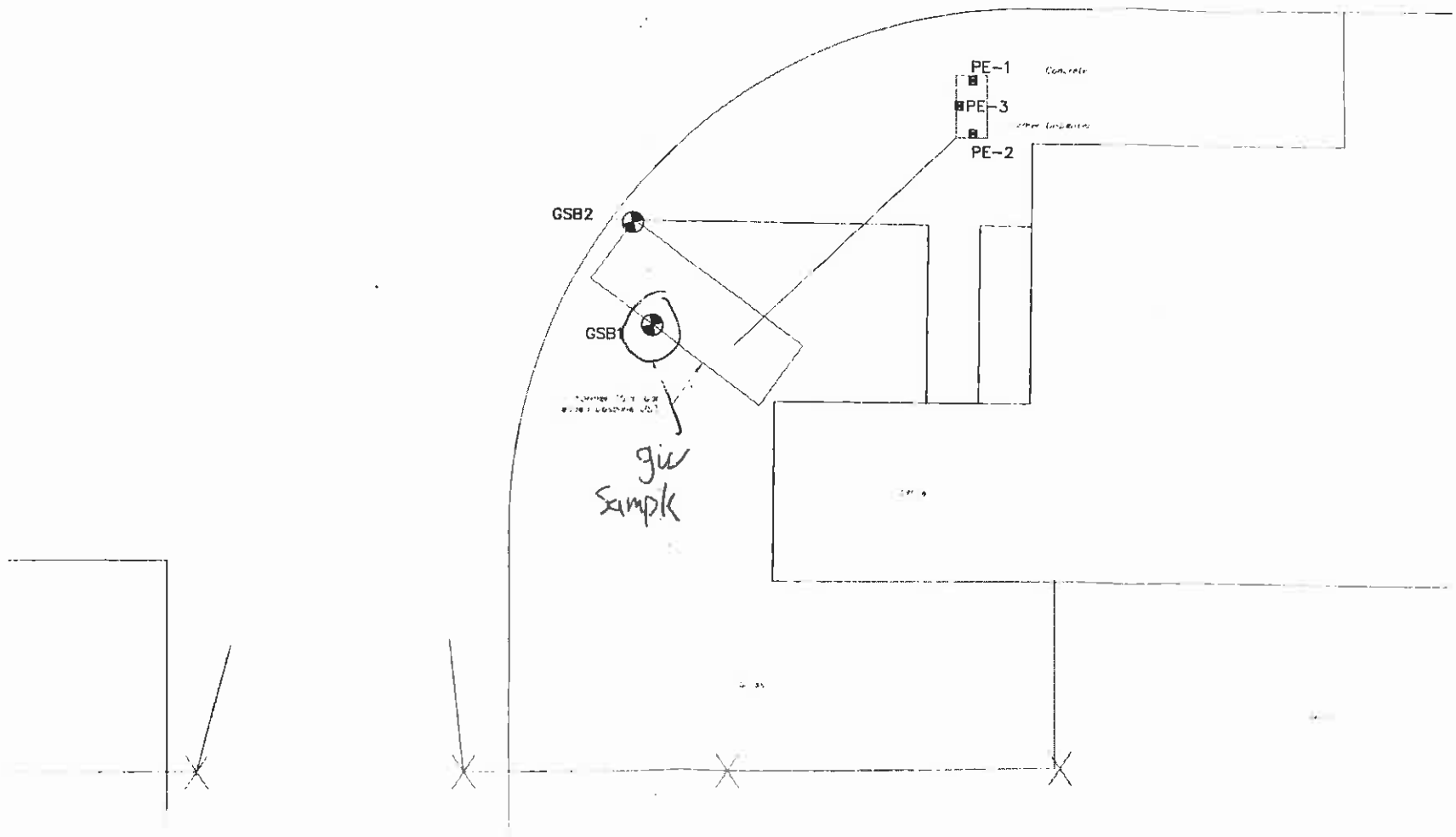
Remediation Required?: YES or NO If YES, Remediation under RAW Approval? YES or NO

Remedial Actions Required or Completed: 3/00 MW-1 inst. sampling for VOC + Pb were all below std. of former leaded tank AOC D.

Final Outcome: gw/gc for BTEX + Pb acceptable level 7/00

"NFA" Approved: CM Initials PJS Date 7/26/00

8/22/02 talked to consultant & he contacted w/ twp. authorities to have the Pb in soil/groundwater to BFO



T&M ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7366

SAMPLING LOCATION MAP

DRAWING GPLS-GSSD

FIGURE 4

PROJECT NO. GPLS-GSSD | CADD FILE | SCALE NOT TO SCALE

TABLE 4
GROUNDWATER SAMPLING RESULTS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units		New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	GWB1 141751 07/02/99 WATER 1 0 ug/L	Trip_Blank 141755 07/01/99 WATER 1 0 ug/L
VOLATILE COMPOUNDS (GC/MS)				
	Chloromethane	30	0 4 U	0 4 U
	Bromomethane	10	0 6 U	0 6 U
	VinylChloride	5	0 5 U	0 5 U
	Chloroethane	NA	0 4 U	0 4 U
	MethyleneChloride	3^	1 0 U	1 0 U
	Trichlorofluoromethane	NA	0 3 U	0 3 U
	1,1-Dichloroethene	2	0 5 U	0.5 U
	1,1-Dichloroethane	50^	0.3 U	0 3 U
	trans-1,2-Dichloroethene	100	0.5 U	0 5 U
	cis-1,2-Dichloroethene	70^	0 4 U	0 4 U
	Chloroform	6	0 4 U	0 4 U
	1,2-Dichloroethane	2	0.3 U	0 3 U
	1,1,1-Trichloroethane	30	0.3 U	0 3 U
	CarbonTetrachloride	2	0 4 U	0 4 U
	Bromodichloromethane	1	0 2 U	0 2 U
	1,2-Dichloropropane	1	0 1 U	0 1 U
(1)	cis-1,3-Dichloropropene	NA	0 3 U	0 3 U
	Trichloroethene	1	0 3 U	0 3 U
	Dibromochloromethane	10	0.3 U	0 3 U
	1,1,2-Trichloroethane	3	0 3 U	0 3 U
	Benzene	1	0 3 U	0 3 U
(1)	trans-1,3-Dichloropropene	NA	0 3 U	0 3 U
	2-ChloroethylVinylEther	NA	0 4 U	0 4 U
	Bromoform	4	0 3 U	0 3 U
	Tetrachloroethene	1	0 1 U	0 1 U
	1,1,2,2-Tetrachloroethane	1^	0 3 U	0 3 U
	Toluene	1,000	0 3 U	0 3 U
	Chlorobenzene	50^	0 2 U	0 2 U
	Ethylbenzene	700	0.2 U	0 2 U
	Xylene(Total)	1,000	0 3 U	0 3 U
	TBA	100	14 U	14 U
	MTBE	70^	43	0 3 U
Total Confident Conc VOAs (s)			43	0
Total Estimated Conc VOA TICs (s)			14	0

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene

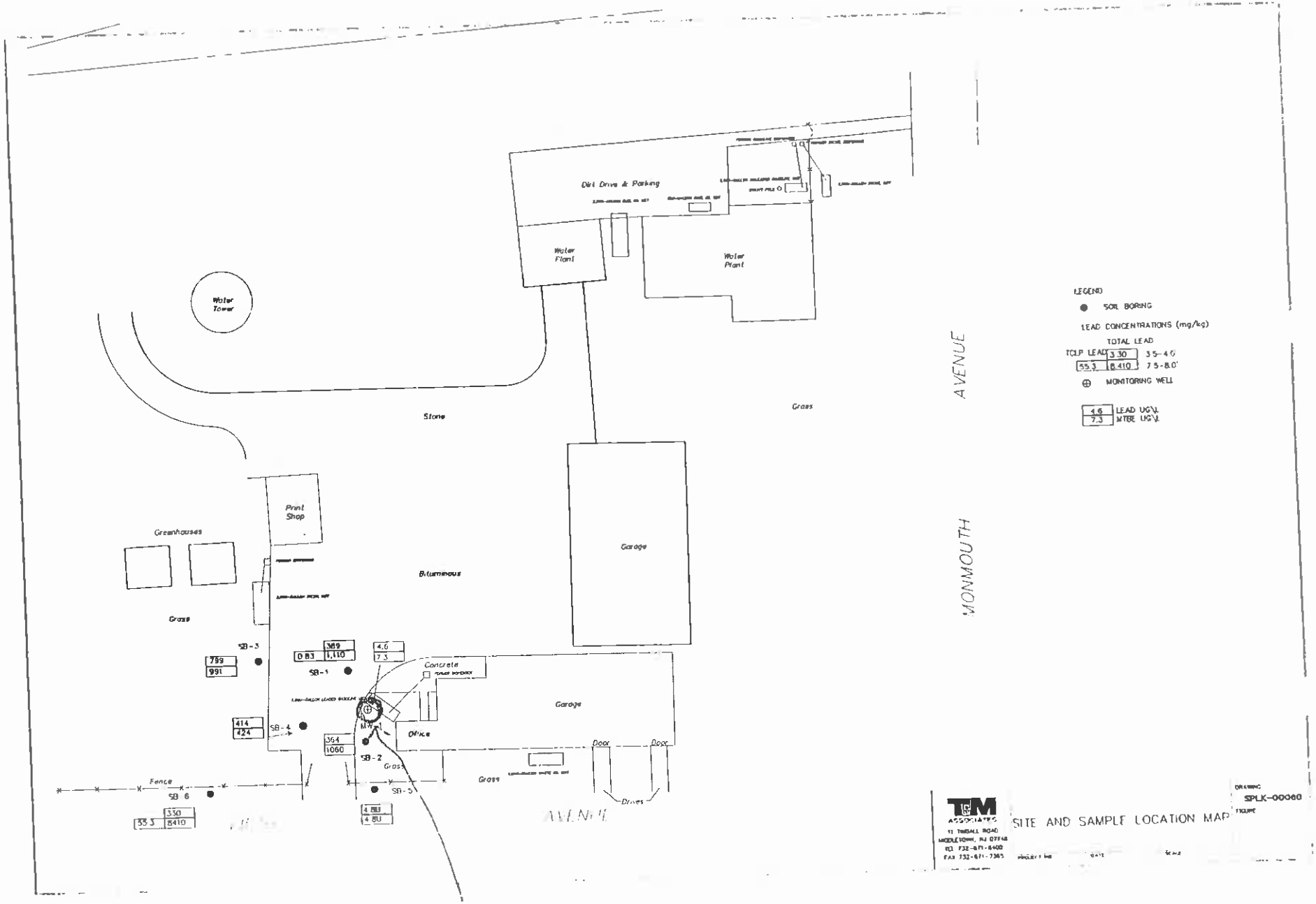
Qualifiers

U - The compound was not detected at the indicated concentration.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Higher of PQLs and Ground Water Quality Criteria (ug/l)	GWB1 141751 07/02/99 WATER NA ug/l
METALS		
Lead	10	[redacted]

Qualifiers

[redacted] Concentration exceeds one or more of the soil cleanup criteria


Dirt Drive & Parking
Water Tower
Water Plant
Water Plant
Stone
Grass
Print Shop
Greenhouses
Bituminous
Garage
Grass
SB-3
SB-1
SB-4
SB-2
SB-5
SB-6
MW-1
Concrete
Garage
Office
Door
Door
Grass
Grass
Fence
Drives
AVENUE
MONMOUTH
AVENUE
LEGEND
SOIL BORING
LEAD CONCENTRATIONS (mg/kg)
TOTAL LEAD
TCLP LEAD
3.30 3.5-4.0
55.3 8,410 7.5-8.0'
MONITORING WELL
4.6 LEAD UG\L
7.3 MTBE UG\L
SITE AND SAMPLE LOCATION MAP
SPLK-00060

MW-1

Table 5. Summary of Groundwater Analytival Results (03/31/2000)

Borough of Spring Lake Department of Public Works
Fifth Avenue and Monmouth Avenue
Borough of Spring Lake Department of Public Works

The New Jersey DEP Standards listed reflect current Envirotech Research Inc. knowledge of the standards and are int as general guidance for the user. Please consult appropriate NJDEP regulations and cleanup standards for your specific application.

Sample ID	New Jersey Higher of	MW-1	Trip_Blank
Lab Sample Number	PQLs and	194422	194423
Sampling Date	Ground Water Quality	03/31/00	03/30/00
Matrix	Criteria (ug/l)	WATER	WATER
Dilution Factor		1.0	1.0
Units		ug/L	ug/L
VOLATILE COMPOUNDS (GC)			
TBA	NA	20U	20U
MTBE	70^	7.3	21U
Benzene	1	0.25U	22U
Toluene	1,000	0.27U	23U
Ethylbenzene	700	0.27U	24U
Xylene(Total)	1000^	0.25U	25U

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking W maximum containment level changes and the Febraury 5, 1997 policy memo issued by assistant Commisioner R. Gimm

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation but greater than zero.
The concetration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination environmental sample.

NR - Not analyzed.

Sample ID	New Jersey Higher of	MW-1	Trip_Blank
Lab Sample Number	PQLs and	194422	194423
Sampling Date	Ground Water Quality	03/31/00	03/30/00
Matrix	Criteria (ug/l)	WATER	WATER
Dilution Factor		NA	
Units		ug/l	
METALS			
Lead	10	4.6	NR

Qualifiers

U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

N - The spiked sample recovery is not within control limits.

NR - Not analyzed.

AOC Sheet
Updated 12-9-94

PHASE II AREA OF CONCERN TRACKING SHEET
Page 4

AREAS OF ENVIRONMENTAL CONCERN

AOC No.: A Medium of Concern: RECEPTORS NA

Well Search Conducted:	BWA Files Reviewed:	Health Department Contacted:
Area Canvassed:	Water Use Area:	Well search Map Submitted:
Downgradient Receptors:	If Yes, Type Distance and Direction from site:	
Surface Water Body/Underground Utilities/Basement Down Gradient of Site:		

Parameters: VO___ TPHC___ BN___ PAH___ MTBE___ TBA___ Naphthalene___ Pb___ PP METALS___ PCB___ PP+40___ Othe

Results of Sampling: no receptor search required as no discharge to gw confirmed

Remediation Required?: YES or NO If YES, Remediation under RAW Approval? YES or NO

Remedial Actions Required or Completed:

Final Outcome:

"NFA" Approved: CM Initials _____ Date _____

BUST
PI# 009736
Bob Steinhagen

New Jersey Department of Environmental Protection
COMMUNICATION CENTER NOTIFICATION REPORT

Received 11/21/2002 12 04 Comm Center # 02-11-21-1149-04
Operator 4 Reviewed By _____

Reporter Type Other
Reported By BOB STEINHAGEN Affiliation DEP Phone 609-633-1472
Street Address 401 EAST STATE ST, Municipality TRENTON State NJ

Incident Category Other
Location Description
DPW
Address 5TH /MONMOUTH AVES Municipality Spring Lake Boro County Monmouth State NJ
Location Type Commercial Occurred Date Occurred Time

Substance Released LEAD Amount Released 0 Units unknown Unknown
ID Known State Solid CAS# 7439921 Incident Status at Time of Report. Terminated
Substance Contained No HAZMAT Yes TCPA No Haz Waste No

Incident Type Soil Contamination Incident Type 2
Injuries No Public Evac No Facility Evac No Public Exposure No
Police on Scene. No Firemen on Scene No DEP Requested No
Road Closure No Wind Speed/Direction /
Contamination Of Land Watershed Other Watershed
Incident Description FOUND CONTAMINATION OF SOIL SOME TIME AROUND 1999

Responsible Party Name. TWP OF SPRING LAKE Responsible Party Phone
Responsible Party Street Address ,
Municipality County State.

Officials Notified
NAME. CASE ASSIGNMENT SECTION AFFILIATION Case Assignment Section PHONE DATE
TIME Notification - Fax
NAME Haz Waste - Central Reg. Office AFFILIATION Haz Waste - Central PHONE DATE:
TIME Notification - Fax
NAME DOHSS - HAZMAT AFFILIATION NJDOH - HAZMAT PHONE. DATE. TIME Notification - Fax
NAME OPER 210 AFFILIATION SPRING LAKE BOROUGH PHONE 732-449-1234 DATE.
11/21/2002 TIME. 11 54Notification - A310

Comments

Memorandum

To: John Sacco, Chief
Natural Historic Resources

From: Wayne Howitz, Assistant Director
Industrial Site Evaluation Element

Subject: Natural Resource Injury Referral

Date: 11/20/02

Case Name: SPRING LAKE PUBLIC WORKS YARD

Case Type: UST

ID #: NJL800449597 UST #: 0097365

RPS Score: Case ID: 98-11-12-0857-49

Job Code: A0563900

Location:
Street: MONMOUTH & FIFTH AVES

Municipality: SPRING LAKE

County: MONMOUTH

GIS Info:

Case Manager: Robert Steinhagen

CM Phone #: (609) 633-1472

Natural Resource Impact Information:

Date First Groundwater RI Submitted: 11/30/99

Date RI Approved (delineation complete): 11/20/02

Approved for (AOC / whole Site): AOC

Natural Resource Impact (SW, GW, Wetlands, Sediment, Fish Wildlife, Other):

GW

Contaminant(s) of Concern (Metals, PHC, VO, Other):

VO

Description of Injury: Groundwater contamination

C: Bob Van Fossen

Form DWR-052
3/81

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

REPORT OF PHONE CALL OR VISIT

Bureau or Office: BUST

In: ____ Out: X

Date: 11/6/02 Time: ____

File: Spring Lake DPW

Routing: ____

Person Contacted: John Vanderslice Phone No.: 732-671-6400

Affiliation: Consultant for RP

Subject of Call Visit: inquire about sampling locations

Summary of Call Visit: I asked John how did the pump ~~for the~~ was to the 1000 gallon tested gas tank. He told me that the distance was approximately 5 feet.

Action Recommended: ____

Robert [illegible]
Signature

Form DWR-052
3/81

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

REPORT OF PHONE CALL OR VISIT

Bureau or Office BUST

File Spring Lake DPW

In X Out

Routing

Date 8/22/07 Time

Person Contacted John Vanderslice Phone No. 732-671-6400

Affiliation Consultant w/ T&M Associates & on behalf of Spring Lake Boro

Subject of Call Visit discuss how lead from incinerator should be handled

Summary of Call Visit I talked w/ Mr. Vanderslice about how the Boro wanted to handle the presence of lead in soil from incinerator ash @ Whether with me or should we NFA case and transfer the lead issue to BEO. After talking to Twp. engineers, it was decided that they prefer to close out the UST portion of case and transfer the lead issue to BEO.

Action Recommended closeout UST case transfer lead in soil issue

Signature

From: Bill Hose
To: RSTEINHA
Date: 7/28/00 7:15am
Subject: Fill Material -Reply -Reply

Bob they would have to address this like any other non-UST related contaminant if we beileve it is non UST related

>>> Kevin Kratina 07/27/00 05:23pm >>>
nope. This material is associated with the "operations" onsite therefore excluded from the defintion of historic fill.

>>> Bill Hose 07/27/00 10:36am >>>
Kevin we have a site where a former municipal incinerator is located onsite (Spring Lake) and was run by the municipality who owns the property... the incinerator is not in operation...we have incinerator ash fill onsite ...the ash was used to raise grade...as per the tech reg definition, this is an historic fill issue correct?

ATTACHMENT D

ISEE SUMMARY DATA REVIEW CHECKLIST

Date QA Report Submitted 7/00

Document Reviewed QA/QC Summary

Non-aqueous analyses

Aqueous analyses 1 GW Sample

Date Reviewed 7/25/00

Samples Reviewed 1 GW Sample from MW-1 for MTBE/BTEX & Pb

Case Name Spring Lake MW

Case Number CAS-HAZ-0857-99

Lab Name Environtech

Reviewer Rick Stenberg

Once the QA scan is complete, attach the laboratory results summary table(s), the laboratory and/or field sample identification numbers and the Laboratory Deliverables Checklist & Non-Conformance Summary to the ISEE Data Review Checklist Supplement and include on the releasable side of the file. The QA data may then be discarded.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. All certified laboratories are required to retain lab deliverables for a minimum of five years.

List RP submitting QA/QC data Rickety of Spring Lake

1. SUMMARY DATA REVIEW REQUIREMENTS:

	Indicate Yes, No, N/A
1. Signed Laboratory Deliverables Checklist and Non-Conformance Summary submitted?	Yes
2. Problems identified in the Laboratory Deliverables Checklist and Non-Conformance Summary?	No
3. MDL's submitted?	Yes
4. MDL's less than current cleanup criteria?	Yes

Comments: _____

ATTACHMENT D

ISEE SUMMARY DATA REVIEW CHECKL

Date QA Report Submitted 12/96

Document Reviewed QA/QC for Soil

Non-aqueous analyses 4 Vector samples

Aqueous analyses

Date Reviewed 1/28/97

Samples Reviewed G1-G4 & VSA - Method Blank for BTEX

Case Name Spring Lake RW

Case Number C8-1-12-0857-419

Lab Name Enviratech

Reviewer Ben Stevens

Once the QA scan is complete, attach the laboratory results summary table(s), the laboratory and/or field sample identification numbers and the Laboratory Deliverables Checklist & Non-Conformance Summary to the ISEE Data Review Checklist Supplement and include on the releasable side of the file. The QA data may then be discarded.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. All certified laboratories are required to retain lab deliverables for a minimum of five years.

List RP submitting QA/QC data Borough of Spring Lake

1. SUMMARY DATA REVIEW REQUIREMENTS:

	Indicate Yes, No, N/A
1. Signed Laboratory Deliverables Checklist and Non-Conformance Summary submitted?	Yes
2. Problems identified in the Laboratory Deliverables Checklist and Non-Conformance Summary?	No
3. MDL's submitted?	Yes
4. MDL's less than current cleanup criteria?	Yes

Comments:

State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

To: Bob Steinkraus

Re: Electronic Data Submittal

Case Name Spring Lake DPW

Case # 98-11-17-0857-49

Date Checked 7/17/00

1 disk, 1 data set
#201791

☒ The above referenced case **PASSED** the Department's Electronic Data Submittal Check. The data has been copied to the network of future evaluation.

☐ The above referenced case **FAILED** the Department's Electronic Data Submittal Check. This means that the submittal did not conform to the guidelines outlined in the Electronic Data Interchange (EDI) Manual. If possible, the error report and the EDI manual has been copied onto the diskette. This should be sent back to the RP either electronically or using a disk mailer.

The errors were as follows:

Could not run EDSA (no error report on disk)

- ☐ disk could not be read (damaged)
- ☐ not EDSA submittal
- ☐ data was for different case
- ☐ missing one or more required files
- ☐ files not in (*.wk1 *.dbf *.txt) format
- ☐ submittal already exists (DTST not unique)
- ☐ other: _____

EDSA error report (on disk)

- ☐ bad file structure
- ☐ mandatory fields were left blank
- ☐ memo file is missing
- ☐ files not linked
- ☐ no data in files (blank)
- ☐ files not named dtst, hzsample, hzresult
- ☐ invalid value
- ☐ other: _____

Most questions concerning the submittal of electronic data is covered in the EDI manual. Please direct the RPs/Consultants to our web site [http://www.state.nj.us.dep.srp.regs.techrule.srpedi.htm] for a copy of this manual. In addition a copy of the EDSA checker is on the web page at [http://www.state.nj.us/regs/hazsite/edsa.htm] for the RP to download and run.

11/30 I picked up K., case Bob from 3/1

C2 TRANSFER/USTRI DATABASE UPDATES

CASE NAME: Spring Lake DPW **INCIDENT #:** 98-11-12-0857-49

COUNTY/MUN: Spring Lake, Monmouth Co

1. RP IDENTIFIER: —

Write-in category, refer to "RP TYPE LIST OF CODES" which includes a list of the letter designations for the major oil companies, authorities and counties.

2. CASE CATEGORY (#1-9): 9

Write-in category, refer to the "SITE CATEGORY" Guidance (AKA "Site Evaluation Criteria (SEC)" developed for the Cooperative Venture Program.

3. ENVIRONMENTAL INDICATOR FIELDS

To be filled out &/or updated (with a "N"/"Y" or leave blank) after RI/RAW Report Review. If the information is not known then the field should be left blank. If the report documents that no receptors are or will be impacted, fill-in "N" in the appropriate categories. If a receptor evaluation is not triggered fill-in "N" in all fields.

Surface Water Impact Assessment Required:	Surface Water Impact Confirmed:
Vapor Impact Assessment Required:	Vapor Impact Confirmed:
Potable Well Sampling Required:	Public Supply Well Included:
Potable Well Impact Confirmed:	Public Supply Well Impact Confirmed:
Pinelands Case/Exceptional Ecological Area:	Other Receptors Impacted:

Risk Based Enforcement Action Taken:	NOV:	Directive:

Comments:

TO BE COMPLETED FOR C2 TRANSFERS ONLY

Prepared By:	**Date:** 11/18/99
Sup/SC:	**Date:** 11/15/99

ATTACHMENT B

ISEE SUMMARY DATA REVIEW CHECKLIST

Date DA Report Submitted 12/98

Document Reviewed QAQC for SL

Non-aqueous analyses 11 Soil Samples

Aqueous analyses

Date Reviewed 12/1/99

Samples Reviewed 12-1234/G7-1234/FD2-12 to NJ IKglycol IKgrs. 750 ml ea

Case Name Spring Lake DPW

Case Number 98-11-12-0857-49

Lab Name Enviotech

Reviewer Bob Stinnaggin

Once the QA scan is complete, attach the laboratory results summary table(s), the laboratory and/or field sample identification numbers and the Laboratory Deliverables Checklist & Non-Conformance Summary to the ISEE Data Review Checklist Supplement and include on the releasable side of the file. The QA data may then be discarded.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years.

List RP submitting QA/QC data Borough of Spring Lake

1. SUMMARY DATA REVIEW REQUIREMENTS:

	Indicate Yes, No, N/A
1. Signed Laboratory Deliverables Checklist and Non-Conformance Summary submitted?	YES
2. [illegible] identified in the Laboratory Deliverables Checklist and Non-Conformance Summary?	NO
3. MDL's submitted?	YES
4. MDL's less than current cleanup criteria?	YES

Comments:

ATTACHMENT B

ISEE SUMMARY DATA REVIEW CHECKLIST

Date DA Report Submitted 12/4/98

Document Reviewed QAQC for EIL

Non-aqueous analyses Soil samples

Aqueous analyses

Date Reviewed 12/1/99

Samples Reviewed SX-1,2,3,4,5 FD-1,2,3,4,5 moved to NA + 2K dissol 2K field

Case Name Spring Lake DPW

Case Number 98-11-12-0857-49

Lab Name Enviratech

Reviewer Bob Stenhouse

Once the QA scan is complete, attach the laboratory results summary table(s), the laboratory and/or field sample identification numbers and the Laboratory Deliverables Checklist & Non-Conformance Summary to the ISEE Data Review Checklist Supplement and include on the releasable side of the file. The QA data may then be discarded.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. All certified laboratories are required to retain lab deliverables for a minimum of five years.

List RP submitting QA/QC data Borough of Spring Lake

I. SUMMARY DATA REVIEW REQUIREMENTS:

	Indicate Yes, No, N/A
1. Signed Laboratory Deliverables Checklist and Non-Conformance Summary submitted?	____
2. [illegible] identified in the Laboratory Deliverables Checklist and Non-Conformance Summary?	____
3. MDL's submitted?	____
4. MDL's less than current cleanup criteria?	____

Comments: _____

ATTACHMENT B

SSEE SUMMARY DATA REVIEW CHECKLIST

Date DA Report Submitted 12/2/98
Document Reviewed QA/QC for soil
Non-aqueous analyses
Aqueous analyses 3 soil samples
Date Reviewed 12/1/98
Samples Reviewed WG-1,2,3 & NFA WO. tanks

Case Name Spring Lake DPW
Case Number 98-11-12-0857-49
Lab Name Enviratech
Reviewer Bob Steinkraus

Once the QA scan is complete, attach the laboratory results summary table(s), the laboratory and/or field sample identification numbers and the Laboratory Deliverables Checklist & Non-Conformance Summary to the SSEE Data Review Checklist Supplement and include on the releasable side of the file. The QA data may then be discarded.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. All certified laboratories are required to retain lab deliverables for a minimum of five years.

List RP submitting QA/QC data Borough of Spring Lake

1. SUMMARY DATA REVIEW REQUIREMENTS:

	Indicate Yes, No, N/A
1. Signed Laboratory Deliverables Checklist and Non-Conformance Summary submitted?	YES
2. Problems identified in the Laboratory Deliverables Checklist and Non-Conformance Summary?	NO
3. MDL's submitted?	YES
4. MDL's less than current cleanup criteria?	YES

Comments:

State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

To Linda Fisher

From: Edsa Checker

Re: Electronic Data Submittal
98-11-12-0857-49
Spring Lake Public Works Yard
BUST EDSA Submittal ID: 2208
Received: 11/10/99
Checked: 11/10/99

Date: 11/10/99

The above referenced case FAILED the Electronic Data Submittal Check.

This means that the submittal did not conform to the guidelines outlined in the Electronic Data Interchange (EDI) Manual. If possible, an error report, a boiler plate response letter and a copy of the EDI manual has been copied onto the floppy. This should be sent back to the RP either electronically or using a disk mailer. A copy of the EDSA checker is on the web page at http://www.state.nj.us/dep/srp/regs/hazsite/edsa.htm for the RP to download

The errors were as follows:

- ☐ disk could not be read [bad floppy disk]
- ☐ not edsa submittal [only summary table]
- ☐ files not in *.wk1 or *.dbf format
- ☑ files not named dtst, hzsample, or hzresult
- ☐ missing one or more required files
- ☐ bad file structure / format
- ☐ memo file is missing
- ☐ data was for a different case
- ☐ no locational information
- ☐ Wrong SRP ID
- ☐ mandatory fields were left blank
- ☑ files not linked
- ☐ no data in files [blank submittal]
- ☑ invalid value [not in valid values list]

☑ other: Hzresults file was zipped and incorrectly named. If a file has to be zipped, the entire submission should be zipped. Not just an individual file.

Most questions concerning the submittal of electronic data is covered in the EDI manual. Please direct the RPs / Consultants to our web site for a copy of this manual [http://www.state.nj.us/dep/srp/regs/techrule/srpedi.htm]. In addition, a copy of EDSA can be downloaded from our web site to check the package prior to submittal.

Lw
11/30

C2 TRANSFER/USTRI DATABASE UPDATES

CASE NAME: Spring Lake DPW **INCIDENT #:** 98-11-12-0857-49

COUNTY/MUN: Spring Lake, Monmouth Co

1. RP IDENTIFIER: —

Write-in category, refer to "RP TYPE LIST OF CODES" which includes a list of the letter designations for the major oil companies, authorities and counties.

2. CASE CATEGORY (#1-9): 9

Write-in category, refer to the "SITE CATEGORY" Guidance (AKA "Site Evaluation Criteria (SEC)" developed for the Cooperative Venture Program.

3. ENVIRONMENTAL INDICATOR FIELDS

To be filled out &/or updated (with a "N"/"Y" or leave blank) after RI/RAW Report Review. If the information is not known then the field should be left blank. If the report documents that no receptors are or will be impacted, fill-in "N" in the appropriate categories. If a receptor evaluation is not triggered fill-in "N" in all fields.

Surface Water Impact Assessment Required:	Surface Water Impact Confirmed:
Vapor Impact Assessment Required:	Vapor Impact Confirmed:
Potable Well Sampling Required:	Public Supply Well Included:
Potable Well Impact Confirmed:	Public Supply Well Impact Confirmed:
Pinelands Case/Exceptional Ecological Area:	Other Receptors Impacted:

Risk Based Enforcement Action Taken:	NOV:	Directive:

Comments:

TO BE COMPLETED FOR C2 TRANSFERS ONLY

Prepared By:	**Date:** 11/15/99
Sup/SC:	**Date:** 11/18/99

AOC Sheet
Updated 07/11/97

BUST AREA OF CONCERN TRACKING SHEET
SOILS

Page 1

Case #: 98-11-12-0557-49 UST #: 0097365

Name: Spring Lake - Dept of Public Works Town/County Spring Lake / Mon

Block 26 Lot 1 Fee Pd: 1000 500/500 Date(s): 12-28-98 Job Code:

UST Registration OK: N (Y) Multiple Owners/Operators: (N) Y IEC: (N) Y Pinelands: (N) Y

TMS #: N98-1101 AOC ID: E1 AOC Location: East side of garage - along 5th Avenue

# of Tanks:	1					
Size:	1,000	11' x 4'				
Invert Depth:	2 1/2'					
Contents:	Waste Oil					
Condition:	No Holes					

Date Tank/piping removed: 9-8-98 UST Abandoned In Place/ (Removed)/ Replaced / Other:

Length of piping run: 1' Dispenser Addressed: N Y (N/A)

Overexcavation: (N) Y 6' x 15' x 1' deep

Field Screening Conducted: Odors Visual Soil/H_2O Ag. PID Equip/Type

Results: No signs of contamination in soil or GW

GW In Excavation: N (Y) Depth to GW 6' ft. Sheen/product on GW: (N) Y N/A

% Silt/Clay Results or GW Invest. Done Sand, silt w/ some clay, gravel 0-7'

Sampling: Frequency OK: N (Y) Location OK: N (Y) Depth OK: N (Y)

WC-1 to WC-3 Centerline 6'

Parameters: (VO) (TPHC) (BN) PAH Naphthalenes Pb (PP METALS) (PCB) PP+40 Other:

Soil Disposal or Reuse OK: N Y (N/A) UST Contents Disposal OK: N (Y) N/A Clean Fill Certification OK: N (Y) N/A

Soil RAW Approval Date: or (N/A) Soil Remedial Alternative: Excav / SVE / Biorem / Other:

Soil RI &/or RA Results: Highest TPHC (WC-2) was 47.6 ppm

VO = ND

BN = Some detected but below criteria

Metals = Below criteria

Pb = 25.2 ppm

Pesticides/PCB = ND

No further action necessary for this AOC

Use Restriction Required: (N) Y Engineering Control Required: (N) Y

"NFA" Approved: CM Initials LF Date 1-27-99

AOC Sheet
Updated 07/11/97

BUST AREA OF CONCERN TRACKING SHEET
SOILS
Page 2
ADDITIONAL AOCs

TMS #: Same AOC ID: ES AOC Location: S. side of office along 5th Ave.

# of USTs	1					
Size:	1,000	10' x 4'				
Invert Depth:	~6'					
Contents:	Pb Gas					
Condition:	Nicholes					

Date Tank/piping removed: 9-8-98 UST Abandoned in Place / (Removed) / Replaced / Other:

Length of piping run: ~7' Dispenser Addressed: N (Y) N/A Removed ~3 years ago

Overexcavation: (N) Y 6' x 12' x 6' deep

Field Screening Conducted: Odors Visual Soil/H_2O Ag. PID Equip/Type _____
Results: No contamination evident in soil or gw near UST or pump

GW in Excavation: N (Y) Depth to GW (6') ft. Sheen/product on GW: (N) Y N/A

% Silt/Clay Results or GW Invest. Done Sand & Silt w/some clay & gravel

Sampling: Frequency OK: N (Y) Location OK: N (Y) Depth OK: N (Y)

(T1-1 to (T1-4 Side walls above gw 6'

(T1-5 piping beneath dispenser 2'

Parameters: (VO) TPHC ___ BN ___ PAH ___ Naphthalenes ___ (Pb) PP METALS ___ PCB ___ PP+40 ___ Other:

Soil Disposal or Reuse OK: N Y (N/A) UST Contents Disposal OK: N (Y) N/A Clean Fill Certification OK: N (Y) N/A

Soil RAW Approval Date: _____ (or N/A) Soil Remedial Alternative: Excav / SVE / Biorem / Other:

Soil RI &/or RA Results: VO for UST all below standard

VO for (T1-5 (dispenser sample) had xylene at 90 ppm; VOA = 71

MDL's for benzene above criteria for this sample ff

Pb 431 ppm (T1-1
80.3 ppm (T1-2
247 ppm (T1-3
258 ppm (T1-4
571 ppm (T1-5

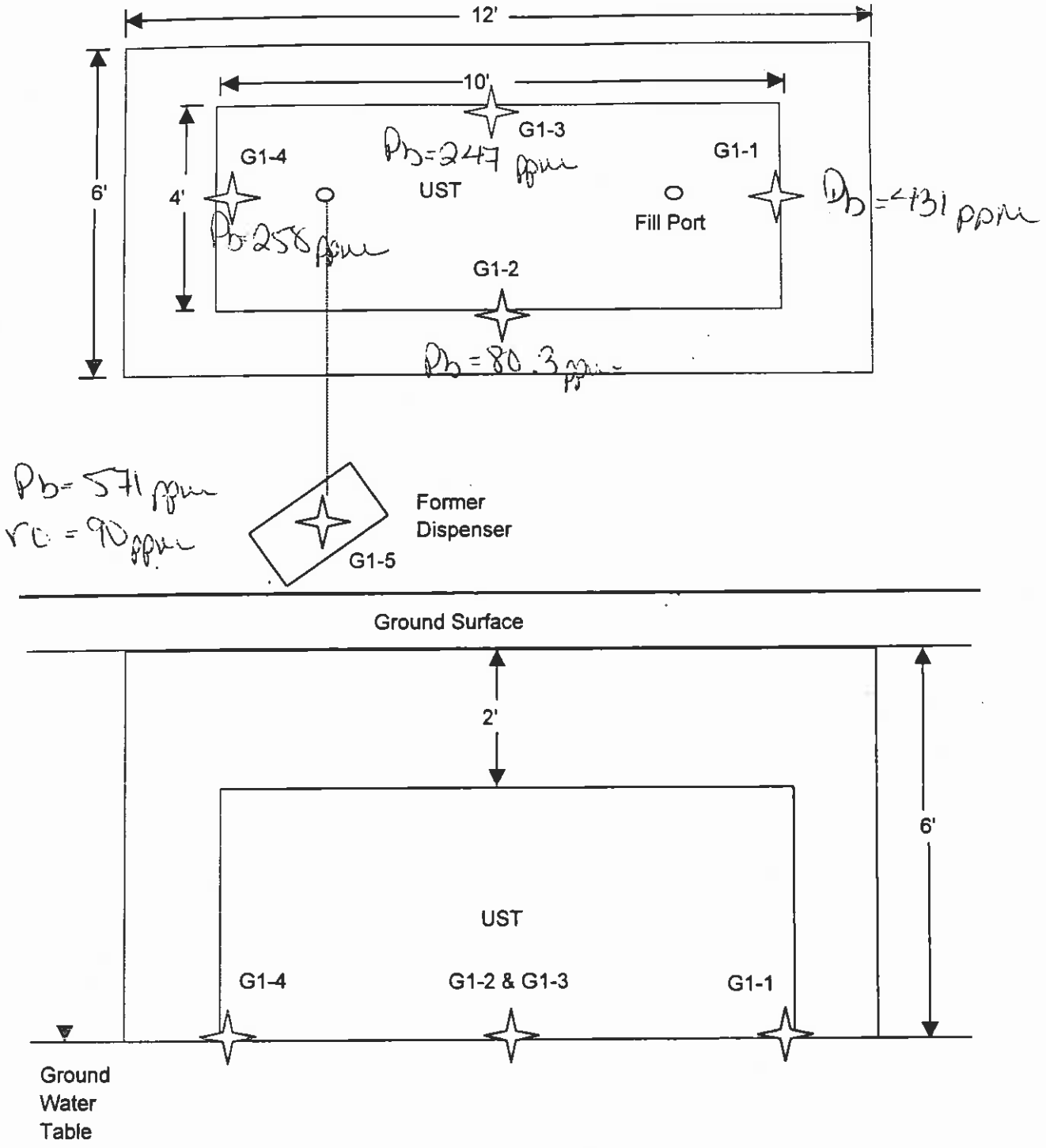
See attached map for soil sample locations. Need to delineate/remediate & do (T1 of 2 I

Engineering Control Required: N Y Use Restriction Required. N Y

"NFA" Approved: CM Initials _____ Date _____

Figure 4B.
Soil Sample Locations Map

1,000-Gallon Leaded Gasoline Tank



AOC Sheet
Updated 07/11/97

BUST AREA OF CONCERN TRACKING SHEET
SOILS

Page 2

ADDITIONAL AOCs

TMS #: Sunoco AOC ID: E-4 AOC Location: (Grass area on S. side of parking lot near pump #

# of USTs	1					
Size:	2,000	12' x 5'				
Invert Depth:	~7'					
Contents:	Diesel					
Condition:	No Holes					

Date Tank/piping removed: 9-9-98 UST Abandoned in Place / (Removed) / Replaced / Other:

Length of piping run: 6' Dispenser Addressed: N (Y) N/A Removed in 3 groups

Overexcavation: N (Y) 8' x 18' x 7' deep

Field Screening Conducted: Odors Visual Soil/H_2O Ag. PID Equip/Type _____

Results: No signs of contamination of soil or gw

GW In Excavation: N (Y) Depth to GW 6.5' ft. Sheen/product on GW: (N) Y N/A

% Silt/Clay Results or GW Invest. Done Sand & silt w/some clay & gravel

Sampling: Frequency OK: N (Y) Location OK: N (Y) Depth OK: N (Y)

D1-1 to D1-4 sidewalls above gw 6.5'

D1-5 piping beneath dispenser 2'

Parameters: VO ___ (TPHC) ___ BN ___ PAH ___ Naphthalenes ___ Pb ___ PP METALS ___ PCB ___ PP+40 ___ Other:

Soil Disposal or Reuse OK: N Y (N/A) UST Contents Disposal OK: N (Y) N/A Clean Fill Certification OK: N (Y) N/A

Soil RAW Approval Date: _____ or (N/A) Soil Remedial Alternative: Excav / SVE / Biorem / Other:

Soil RI &/or RA Results: Highest TPHC (D1-5) was 297 ppm. No further analytes conducted

NFA necessary for this AOC

Engineering Control Required: (N) Y Use Restriction Required: (N) Y

"NFA" Approved: CM Initials _____ Date _____

AOC Sheet
Updated 07/11/97

BUST AREA OF CONCERN TRACKING SHEET
SOILS

ADDITIONAL AOCs

TMS #: AOC ID: Σ-1 AOC Location: N. side of Water Plant along Monmouth Avenue

# of USTs	1					
Size:	1,000	12' x 5'				
Invert Depth:	~7'					
Contents:	Diesel					
Condition:	NC Holes					

Date Tank/piping removed: 9-10-98 UST Abandoned in Place / (Removed) / Replaced / Other:

Length of piping run: 8' Dispenser Addressed: N (Y) N/A Removed w/ 3yc ac

Overexcavation: (N) Y 8' x 17' x 7' deep

Field Screening Conducted: Odors Visual Soil/H_2O Ag. PID Equip/Type _____

Results: NO Soil contamination evident

GW in Excavation: (N) Y Depth to GW _____ ft. Sheen/product on GW: N Y (N/A)

% Silt/Clay Results or GW Invest. Done Sand & silt w/some clay & gravel

Sampling: Frequency OK: N (Y) Location OK: N (Y) Depth OK: N (Y)

D2-1 to D2-3 Centerline 7 to 7.5'

D2-4 beneath dispenser 2'

Parameters: VO ___ (TPHC) ___ BN ___ PAH ___ Naphthalenes ___ Pb ___ PP METALS ___ PCB ___ PP+40 ___ Other:

Soil Disposal or Reuse OK: N Y (N/A) UST Contents Disposal OK: N (Y) N/A Clean Fill Certification OK: N (Y) N/A

Soil RAW Approval Date: _____ or (N/A) Soil Remedial Alternative: Excav / SVE / Biorem / Other:

Soil RI &/or RA Results: Highest TPHC (D2-2) was 84.1 ppm. No further analysis performed.

NFA necessary for this AOC

Engineering Control Required: (N) Y Use Restriction Required: (N) Y

"NFA" Approved: CM Initials JF Date 1-29-99

AOC Sheet
Updated 07/11/97

BUST AREA OF CONCERN TRACKING SHEET
SOILS
Page 2
ADDITIONAL AOCs

TMS #: AOC ID: E2 AOC Location: Inside between Water Plant & RR tracks

# of USTs	1					
Size:	1,000	10.5'x4'				
Invert Depth:						
Contents:	UnPb Gas					
Condition:	No Holes					

Date Tank/piping removed: 9-98
UST Abandoned in Place / (Removed) / Replaced / Other:
Length of piping run: 12'
Dispenser Addressed: N (Y) N/A Removed + Bypassed

Overexcavation: (N) Y 7' x 12' x 6.5' deep
Field Screening Conducted: Odors Visual Soil/H_2O Ag. PID Equip/Type
Results: No soil contamination evident
GW in Excavation: (N) Y Depth to GW ft. Sheen/product on GW: N Y (N/A)
% Silt/Clay Results or GW Invest. Done Sand & silt, w/some clay & gravel

Sampling: Frequency OK: N (Y)	Location OK: N (Y)	Depth OK: N (Y)
G2-1 to G2-3	centerline	6.5'
G2-4	dispenser	2'

Parameters: (VO) TPHC BN PAH Naphthalenes Pb PP METALS PCB PP+40 Other:
Soil Disposal or Reuse OK: N Y (N/A) UST Contents Disposal OK: N (Y) N/A Clean Fill Certification OK: N (Y) N/A
Soil RAW Approval Date: or N/A Soil Remedial Alternative: Excav / SVE / Biorem / Other:

Soil RI &/or RA Results: Some VO detected in G2-4 but below criteria.
Pb ranged from 15.4ppm to 95.3ppm

No further action necessary for this AOC

Engineering Control Required: (N) Y Use Restriction Required: (N) Y

"NFA" Approved: CM Initials JE Date 1-27-99

AOC Sheet
Updated 07/11/97

2K was un...guladed until they found 750 gal.

BUST AREA OF CONCERN TRACKING SHEET

SOILS

Page 2

ADDITIONAL AOCs

TMS #: AOC ID: AOC Location: Beneath dust drive on W/S side of [illegible]

# of USTs						
Size:	2,000	750				
Invert Depth:						
Contents:	#2 F.O.	#2 F.O.				
Condition:						

Date Tank/piping removed: | UST Abandoned in Place / (Removed) / Replaced / Other:

Length of piping run: | Dispenser Addressed: N Y (N/A)

Overexcavation: N Y

Field Screening Conducted: Odors Visual Soil/H_2O Ag. PID Equip/Type_____
Results:

GW in Excavation: N Y Depth to GW_____ft. Sheen/product on GW: N Y N/A

% Silt/Clay Results or GW Invest. Done

Sampling: Frequency OK: N Y Location OK: N Y Depth OK: N Y

2K) FO-1 to FO-5 4.5'

750) FO2-1 & FO2-2 6.5'

Parameters: VO__ (TPHC)__ BN__ PAH__ Naphthalenes__ Pb__ PP METALS__ PCB__ PP+40__ Other:

Soil Disposal or Reuse OK: N Y N/A UST Contents Disposal OK: N Y N/A Clean Fill Certification OK: N Y N/A

Soil RAW Approval Date: _____ or N/A Soil Remedial Alternative: Excav / SVE / Biorem / Other:

Soil RI &/or RA Results:

(For 2K) Highest TPHC. (FO-3) was 89.7 ppm

(For 750) Highest TPHC. (FO2-2) was 50.1 ppm

No further analysis performed.

Engineering Control Required: N Y Use Restriction Required: N Y

"NFA" Approved: CM Initials _____ Date _____

AOC Sheet
Updated 07/11/97

BUST AREA OF CONCERN TRACKING SHEET
RECEPTORS

1/2 MILE/ 1 Mile Well Search: N Y	Manual Files Reviewed: N Y	Health Department Contacted: N Y
Well Search Map Submitted: N Y	Area Canvassed: N Y N/A	MUA or Water Purveyor Contacted: N Y
Vapor Survey: N Y N/A	Utilities Surveyed: N Y	Surface Water Sampled: N Y N/A

Are all properties connected to a public supply source: N Y

If Yes, have all private domestic wells been properly abandoned: N Y

Receptor Type	Distance/Direction From Source	Depth Below Grade Diameter & Construction	Depth of Well and Screening Interval (if applicable)	Type/Concentration of Impact (if appl.)
Muck Pond	Adjacent to site			

Parameters: VO__ TPHC__ BN__ PAH__ MTBE__ TBA__ Naphthalenes__ Pb__ PP METALS__ PCB__ PP+40__ Other_____

Receptor RI &/or RA Results:

Potable well letter(s) sent: N Y Dates:

"NFA" Approved (For Case Closure Only): CM Initials _____ Date _____

BUST FEE PAYSHEET
FY 99

UST REG #: 0097365 TMS NO.: N98-1101

Company: SPRING LAKE PUBLIC WORKS YARD

Date Rec: 12/23/98 Amt Rec: $1,000.00

Check No: 43

Payment Code: 12
Payment Desc: Remedial Investigation

Transmittal No: 96205-55 Check From : THE BOROUGH OF SPRING LAKE

Update (Yes or No): N Date of Last Update:

Remarks:

Refund Amount : Refund Date:
Date Entered 12/23/98 Time Entered 12:33 pm

State of New Jersey
Department of Environmental Protection

Jon S. Corzine
Governor

Mark N. Mauriello
Acting Commissioner

Bureau of Underground Storage Tanks
401 East State Street
P.O. Box 433
Trenton, NJ 08625-0433
Phone #: 609-292-8761
Fax #: 609-777-4285

The Honorable Jennifer Naughton
Spring Lake Boro
423 Warren Ave
Spring Lake, NJ 07762

NOTICE OF DEFICIENCY

Re: Preliminary Assessment Report Dated: May 2002
Public Works Water Treatment Plant
Monmouth & 5th Avenues
Spring Lake, Monmouth County
SRP PI# 009736
Activity Number Reference: USR030001
Case #: 02-11-21-1149-04 BUST C2
SEC #: 8

Dear Ms. Naughton:

The New Jersey Department of Environmental Protection (Department) has reviewed the above referenced document submitted pursuant to the Underground Storage Tank regulations at N.J.A.C. 7:14B (UST Rule) and the Technical Requirements for Site Remediation at N.J.A.C. 7:26E (Tech Rule).

Deficiencies
The Department has completed its review of your submittal and identified the following deficiencies:

Failure to remediate a discharge pursuant to N.J.A.C. 7:26E.

Failure to include a recommendation for each area of concern in the Preliminary Assessment Report. Specifically, The Borough of Spring Lake (BSL) has not proposed a remedial action to address the presence of lead in soil at the above referenced site. At a minimum, a Deed Notice is required to restrict access to contaminated areas.

Corrective Actions
To correct these deficiencies please take the following actions or make the required submittals within the timeframes indicated:

BSR shall submit a remedial investigation workplan that shall propose a sampling plan to delineate the full horizontal and vertical extent of lead contamination in soil on-site. Full delineation is required regardless of the chosen remedial action.

Note that if deficiencies included herein are not addressed to the Department's satisfaction within the specified time period the Department will consider them to be violations and may assess penalties pursuant to N.J.A.C. 7:26C-10.

If you require copies of Department Guidance Documents or applications, many of these are available on the internet http://www.state.nj.us/dep/srp. If you have any questions regarding this matter contact Robert Steinhagen Case Manager, at (609) 633-1472 prior to the date indicated.

Sincerely,

_____

Joseph Eaker, Acting Section Chief
Bureau of Underground Storage Tanks

c: Robert Steinhagen
BUST
Sidney Johnson, Jr.
Monmouth City Regional Health Commission No. 1
John Vanderslice
T&M Associates

RESPONSIBLE PARTY REMEDIATION ELEMENT

BUST DOCUMENT TRANSMITTAL FORM

Case Name: Spring Lake DRM Case No: 02-41-31149-04

PI ID 100736 Jobcode: ASSESS SEC 8

RI Completed? (Y) N PA SI

Date and Type of Document(s) Received:

Type of Response: NFA

Document Prepared By: [signature] Date: 1/12/11

Comments: returned for re-review 1/14/11

Supervisor: _____ Date: _____

Comments: Returned for Corrections (Date):

Section Chief: _____ Date: _____

Comments: Returned for Corrections (Date):

Bureau Chief: _____ Date: _____

Comments: Returned for Corrections (Date):

estimated time: _____

date:	process time:	cumulative time:

The attached correspondence has been:

APPROVED for release by: _____ Date: _____

PREPARER'S CHECKLIST:

_____ AOC Sheets Updated
_____ Envelopes for cc's
_____ Registration database correct
_____ Owner/subsurface evaluator certification form received
_____ EDSA submitted and passed
_____ SEC Criterion Updated in NJEMS CODS
_____ Responsible Entity Correct in Masterfile
_____ NJEMS Activity Tracking Updated
_____ NJEMS Data Input Complete
_____ Fee/Billing Contact updated in NJEMS CODS
_____ Fixed Review Fees Paid (UST Closure Fees, PA, SI, Biennial Cert)
_____ Billing Unit Contacted (NFA only)
_____ Cost of Cleanup for NFA
_____ Cost of Cleanup (projected additional) for RAW Approval
____ ONRD Forms Prepared (for NFA)
_ Coordinated response with Enf. Mgr. for cases with O of A issued action? (Y or NA)

RESPONSIBLE PARTY REMEDIATION ELEMENT

BUST DOCUMENT TRANSMITTAL FORM

Case Name: Public Works - Spring Lake Beach Case No: _____

PI ID 006736 Jobcode: AC563904 SEC 8

RI Completed? (Y), N PA 6/07

Date and Type of Document(s) Received: _____

Type of Response: NOD adding back

Document Prepared By: [signature] Date: 11/5/09

Comments: UST rec'd 6/08 11/07

estimated time:		
date:	process time:	cumulative time:
2/4/11		

Supervisor: _____ Date: _____

Comments: Returned for Corrections (Date):

Section Chief: [signature] Date: _____

Comments: Returned for Corrections (Date):

Bureau Chief: _____ Date: _____

Comments: Returned for Corrections (Date):

11/12/09

The attached correspondence has been:

APPROVED for release by: _____ Date: _____

PREPARER'S CHECKLIST:

7/7

From Lets discuss. They recommend NFA for each AOC. History of site use is same. They need to determine all activities that once took place there. Arsenic at pot. well been sampled

_____ AOC Sheets Updated
_____ Envelopes for cc's
_____ Registration database correct
_____ Owner/subsurface evaluator certification form received
_____ EDSA submitted and passed
_____ SEC Criterion Updated in NJEMS CODS
_____ Responsible Entity Correct in Masterfile
_____ NJEMS Activity Tracking Updated
_____ NJEMS Data Input Complete
_____ Fee/Billing Contact updated in NJEMS CODS
_____ Fixed Review Fees Paid (UST Closure Fees, PA, SI, Biennial Cert)
_____ Billing Unit Contacted (NFA only)
_____ Cost of Cleanup for NFA
_____ Cost of Cleanup (projected additional) for RAW Approval
_____ ONRD Forms Prepared (for NFA)
_____ Coordinated response with Enf. Mgr. for cases with O of A issued action? (Y or NA)
_____ Public Notice Checklist Completed

State of New Jersey
Department of Environmental Protection

Jon S. Corzine
Governor

Mark N. Mauriello
Acting Commissioner

Bureau of Underground Storage Tanks
401 East State Street
P.O. Box 433
Trenton, NJ 08625-0433
Phone #: 609-292-8761
Fax #: 609-777-4285

The Honorable Jennifer Naughton
Spring Lake Boro
423 Warren Ave
Spring Lake, NJ 07762

NOTICE OF DEFICIENCY

Re: Preliminary Assessment Report Dated: May 2002
Public Works Water Treatment Plant
Monmouth & 5th Avenues
Spring Lake, Monmouth County
SRP PI# 009736
Activity Number Reference: USR030001
Case #: 02-11-21-1149-04 BUST C2
SEC #: 8

Dear Ms. Naughton:

The New Jersey Department of Environmental Protection (Department) has reviewed the above referenced document submitted pursuant to the Underground Storage Tank regulations at N.J.A.C. 7:14B (UST Rule) and the Technical Requirements for Site Remediation at N.J.A.C. 7:26E (Tech Rule).

Deficiencies
The Department has completed its review of your submittal and identified the following deficiencies:

Failure to remediate a discharge pursuant to N.J.A.C. 7:26E.

Failure to include a recommendation for each area of concern in the Preliminary Assessment Report. Specifically, The Borough of Spring Lake (BSL) has not proposed a remedial action to address the presence of lead in soil at the above referenced site. At a minimum, a Deed Notice is required to restrict access to contaminated areas.

Corrective Actions

To correct these deficiencies please take the following actions or make the required submittals within the timeframes indicated:

BSR shall submit a remedial investigation workplan that shall propose a sampling plan to delineate the full horizontal and vertical extent of lead contamination in soil on-site. Full delineation is required regardless of the chosen remedial action.

Note that if deficiencies included herein are not addressed to the Department's satisfaction within the specified time period the Department will consider them to be violations and may assess penalties pursuant to N.J.A.C. 7:26C-10.

If you require copies of Department Guidance Documents or applications, many of these are available on the internet http://www.state.nj.us/dep/srp. If you have any questions regarding this matter contact Robert Steinhagen Case Manager, at (609) 633-1472 prior to the date indicated.

Sincerely,

_____

David Rubin, Acting Section Chief
Bureau of Underground Storage Tanks

c: Robert Steinhagen
BUST
Sidney Johnson, Jr.
Monmouth City Regional Health Commission No. 1
John Vanderslice
T&M Associates

State of New Jersey

CHRIS CHRISTIE
Governor
KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Underground Storage Tanks
401 East State Street
P.O. Box 420
Mail Code 401-05A
Trenton, NJ 08625
Phone #: 609-292-8761
Fax #: 609-777-4285

BOB MARTIN
Commissioner

DEC 13 2011

Spring Lake Boro
423 Warren Ave.
Spring Lake, NJ 07762

RE: Case Name: Public Works Water Treatment Plant
Address: Monmouth & 5th Avenues
Spring Lake, NJ
Monmouth County
SRP PI: 009736
Case#: 02-11-21-1149-04
SEC#: 8

Dear Sir or Madam:

This letter is intended to provide information to help you understand how you may benefit in moving your remediation forward under the procedures established pursuant to the Site Remediation Reform Act (SRRA) enacted on May 7, 2009 and to advise you of the assignment status of the referenced case. Based upon the number of cases undergoing remediation, limited Department resources and reassignment of staff to implement the new Licensed Site Remediation Professional (LSRP) program, your case will no longer have an assigned case manager. The Department will not be able to review your case before you are required to hire a LSRP under SRRA (May 2012). It is strongly recommended that you not wait till May 2012, but rather hire a LSRP now to proceed without the Department's pre-approvals. A list of temporary LSRPs can be found at http://www.nj.gov/dep/srp/srra/lsrp/temporary_lsrp_list.htm.

The SRRA establishes an affirmative obligation for responsible parties to remediate discharges at their sites. The SRRA also establishes criteria for the LSRPs, who will be responsible for overseeing remediations and certifying that the remediation work is done in accordance with all prevailing statutes, regulations and guidance without the need for Department pre-approval. The timeframes and criteria that define when a LSRP must be hired, as well as other requirements of SRRA, may be found in rules adopted on November 4, 2009 (please refer to the Administrative Requirement for the Remediation of Contaminated Sites, ("ARRCS Rule") N.J.A.C. 7:26C and the Technical Requirements for Site Remediation ("Tech Regs") N.J.A.C. 7:26E.). These rules can be found at http://nj.gov/dep/srp/regs/

While the ARRCS Rules at N.J.A.C. 7:26C-2.2(a) and (b) do not compel you to hire a LSRP at this time, there are many benefits in utilizing a LSRP now. Specifically, a LSRP can make remediation decisions without the Department's prior approval, thereby eliminating delays inherent with waiting for the Department's review. LSRPs can issue Response Action Outcome letters; replacing Department No Further Action letters. In addition, an annual fee replaces the direct billing of the past and allows for predictability in budgeting. At the same time, be assured the Department is committed to working in a compliance assistance mode for cases that have a LSRP of record and will not be issuing Notices of Deficiencies. Lastly, as of May 7, 2012, the Department will no longer conduct any traditional case management activities or issue No Further Action letters and SRRA requires that all cases, whether or not they are being actively remediated, **must** hire a LSRP and proceed without Department pre-approval.

In addition, it is important to note that, regulatory and mandatory timeframes that started March 1, 2010, may apply. These timeframes are for completion of an Initial Receptor Evaluation, a Preliminary Assessment/Site Investigation,

if required, and responding to the presence of petroleum free product (Light Non-Aqueous Phase Liquid or LNAPL). The submissions for these activities were due to the Department by March 1, 2011. Depending on site-specific conditions, regulatory and mandatory timeframes related to "Immediate Environmental Concern" (IEC) conditions could also apply and are triggered from the date of identification of the IEC. Regardless of whether you choose to enter into the LSRP program at this time, you are still obligated to meet all statutory, regulatory, and mandatory timeframes. To better understand these timeframes and related activities, including the ongoing evaluation of potential impacts to public health and the environment, and what constitutes an IEC, etc., please consult the referenced rules and the following links:
http://www.state.nj.us/dep/srp/srra/srra_summary_changes.pdf.,
http://www.nj.gov/dep/srp/guidance/srra/draft_lnapl_guidance.pdf,
http://nj.gov/dep/srp/srra/forms/receptor_evaluation_report.pdf
http://www.nj.gov/dep/srp/guidance/srra/draft_iec_guidance.pdf

It is important to note that, for discharges which were discovered more than 10 years prior to May 7, 2009, where the party responsible for the remediation has not completed a remedial investigation, the SRRA includes a statutory timeframe (State law not subject to modification) requiring that the remedial investigation be completed within 5 years of the effective date of the Act (by May 7, 2014).

The Department hopes that this new approach to site remediation presents an opportunity for you to resolve any outstanding site remediation obligations using the services of a LSRP since the Department cannot guarantee that it will complete the review of any documents awaiting its review before the May 7, 2012 date when you will be required to use a LSRP.

Should you have any technical and/or administrative questions regarding this new program, please refer to the "Contact List for Questions on LSRP" located at http://www.nj.gov/dep/srp/srra/srra_contacts.pdf or contact Mike Infanger at (609) 984-4430.

Sincerely,

Kathleen Katz FOR

Kevin F. Kratina, Chief
Bureau of Underground Storage Tanks

c: Bob Steinhagen,
BUST

State of New Jersey
DEPARTMENT OF HEALTH AND SENIOR SERVICES
DIVISION OF EPIDEMIOLOGY, ENVIRONMENTAL AND OCCUPATIONAL HEALTH
PO BOX 369
TRENTON, N.J. 08625-0369

www.nj.gov/health

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

MARY E. O'DOWD, M.P.H.
Commissioner

July 20, 2011

Mrs. Kathleen Crippen
564 Atlantic Avenue
Spring Lake, NJ 07762-2024

[!] CONFIDENTIAL

Dear Mrs. Crippen:

This letter is a response to concerns you expressed regarding residents of Spring Lake Heights Borough, New Jersey, who have been diagnosed with cancer. First, let me say how sorry I am to hear how cancer has affected you and your neighbors. I can understand how concerned you must be. I hope the following information will be helpful to you. Please feel free to share this letter and the enclosures.

During my recent telephone conversations and e-mail correspondence with you and one of your neighbors, Mrs. LeeAllan Gutshall, you both mentioned concerns about the number and types of cancers that have been diagnosed among residents of Spring Lake Heights and their pets, many of whom reside on Atlantic Avenue. You indicated that those affected by cancer include four women, two men and two cats. Mrs. Gutshall told me about an additional three women, three men, and at least seven varied types of pets that have similarly been affected by cancer. Although most of the diagnoses have occurred since 2003, there were two diagnoses that occurred during the 1980s and two that occurred during the 1990s. Based on both your accounts, it appears that the vast majority of affected humans were over the age of 40 at diagnosis, while the majority of affected pets were over the age of 10 at diagnosis. Collectively, you told me that the cancers affecting these residents were those of the breast, ovary, pancreas, esophagus, liver, lung and bone, as well as Hodgkin lymphoma, melanoma, and some unspecified diagnoses. Among the veterinary cancers in this neighborhood, you told me about feline leukemia, feline fibrosarcoma, feline oral squamous cell carcinoma, a possible canine brain cancer, a parrot's beak cancer (which is commonly either a melanoma or squamous cell carcinoma), and several unspecified diagnoses among a number of other dogs and cats.

Unfortunately, cancer is very common; the National Cancer Institute (NCI) estimates that the lifetime risk of being diagnosed with cancer is 44 percent among men and 37 percent among women. Therefore, we estimate that most households will be affected by cancer at some time. The risk of developing cancer also increases as we age and is more common in people over 45 years of age and particularly over 60 years of age. So, it is not unusual to know many people in a community with cancer, especially one with a stable and aging population.

Cancer is a group of over 100 different diseases, each with a different set of risk factors. Most cancers are related to a combination of heredity, lifestyle factors such as smoking or secondhand smoke, diet, alcohol consumption, sun exposure, reproductive factors, certain occupational exposures, and certain infections. If cancer is due to contact with a cancer-causing agent, the disease does not develop immediately. There is often a long period, sometimes 10 to 30 years or more in adults, between the exposure and the onset of cancer. Since some people may have many different exposures over time, it is difficult to pinpoint what may have caused the onset of cancer.

Cancer is also common among domesticated animals. Just as with humans, the incidence of cancer increases with age. According to the American Veterinary Medical Association (AVMA), cancer accounts for nearly half of the deaths of pets over 10 years of age, with dogs getting cancer at a rate comparable to humans, while cats have a lower rate. Unfortunately, the cause of most veterinary cancers is unknown. An exception, for some cats, is a positive association between infection with a contagious feline leukemia virus (FeLV) and the development

of lymphoma, which is one of the most common cancers diagnosed in cats. Feline immunodeficiency virus (FIV) infection can place affected cats at a heightened risk of developing lymphoma too. Lymphoma is also a relatively common cancer in dogs. Please refer to the enclosed AVMA brochure entitled *Cancer in Animals* for further information.

Cases of cancer are more likely to represent a "cancer cluster" if they involve (1) only one type of cancer, (2) a rare type of cancer, or (3) a type of cancer in a group not usually affected by that cancer, such as cancer in children that is normally seen in adults. Confirmation of a cancer cluster does not necessarily mean that there is any single, external cause or hazard that can be identified. Usually, a local or state health department provides the first response to a suspected cancer cluster, gathering relevant information and ultimately making a determination of whether or not a greater-than-expected number of cases exist. The New Jersey Department of Health and Senior Services (NJDHSS) follows a response protocol that parallels cluster investigation guidelines published by the United States Centers for Disease Control and Prevention. Please refer to the enclosed copy of our *Citizen's Guide to Cancer Clusters* document for detailed information.

Often people are concerned about environmental issues and cancer. Today, most environmental health scientists believe that only a relatively small percent of all cancers are related to toxic substances. It is important to note that in order for environmental contaminants to cause cancer or any health problem, there must be a completed pathway through which the contaminants could travel from their source through the environment to enter the human body. This could occur through air, water, food, or direct contact with the skin.

You mentioned health concerns relating to the quality of your local drinking water. You added that many Borough residents have been complaining about the quality of the public drinking water which partially originates from local wells, primarily because of its poor taste, but also due to its bad odors and discoloration. As you may know, water service providers are required by law to periodically test their source water for a range of contaminants. According to the local service providers' reports for 2010, the Spring Lake Heights Water Department and the Manasquan Water Supply System, all standards have been met to protect human health from ingestion exposure to "regulated substances". However, a reported elevated concentration of iron, a "secondary contaminant", could be responsible for drinking water problems with taste, odor, and appearance. It should be noted that substances in this category of contaminants do not pose cancer or other health risks to humans at levels usually found in water. Still, the interaction of excess iron with certain kinds of bacteria found in well water, in either an older home's pipes or those of a public water system, can sometimes result in the problematic formation of the "orange-colored slime/sludge" with accompanying offensive smells like the ones that you mentioned in an e-mail message. Resolution of this problem generally involves processes which temporarily result in the strong chlorine or bleach-like odors that you and Mrs. Gutshall both noted in local tap water. For further information and assistance, you may wish to contact the New Jersey Department of Environmental Protection (NJDEP) Bureau of Safe Drinking Water Implementation at (609) 292-5550. Additional relevant contact information is available online from NJDHSS at http://www.state.nj.us/health/eoh/hhazweb/contacts.pdf.

You mentioned that you are concerned that issues with the local drinking water quality may be related to possible underground contamination flowing into Black Creek, a segment of the Wreck Pond Brook Watershed area, from two adjacent local sites on its banks. You told me that you are also concerned that this situation might involve contaminants seeping into the underground geological formation that supplies a portion of the local drinking water via wells, possibly accounting for the aforementioned water quality issues. The two sites that you mentioned are the *Spring Lake Heights Borough Yard* (*PI#: 004443*), located at 555 Atlantic Avenue, and the *Public Works Water Treatment Plant* (*PI#: 009736*) for Spring Lake Borough, located at Monmouth Avenue and 5th Avenue. Both sites have known groundwater contamination related to leakage from underground storage tanks, according to online resources and as you outlined in an e-mail message. If you would like more information on either of the two sites, you may wish to contact the respective NJDEP case managers: Mr. Erwin Flesch at (609) 633-1978 and Mr. Robert Steinhagen at (609) 633-1472.

Based on the previously mentioned water quality reports, it is unlikely that a pathway exists that would allow contaminants at these sites to impact the drinking water quality in any manner that would promote the development of cancers. Additionally, those same reports indicate that 60 percent of the Borough's drinking water comes a distance from the Manasquan Water Treatment Plant in Wall Township and, though the balance of the water supply is treated locally, it originates from unaffected, deep wells. However, the greater Wreck Pond Brook

Watershed area has apparently had longstanding environmental issues involving the accumulation of nutrients and sediment, as well as excessive bacterial growth. You may wish to review the 2008 *Wreck Pond Brook Regional Stormwater Management Plan*, which outlines existing environmental concerns, proposed projects to resolve those issues and project funding status, as you did mention storm runoff concerns involving sites that are included in the text. The document is available online at: http://co.monmouth.nj.us/PrintPage.aspx?Id=3868. You may additionally wish to contact your local health officer, Ms. Sandra Van Sant, for more information on environmental issues in Spring Lake Heights Borough, at (732) 493-9520.

For your information, I have enclosed copies of two NCI publications which are respectively titled *The Lifetime Risk of Being Diagnosed with Cancer* and *Cancer Clusters*. I have also enclosed copies of our fact sheets on cancer in communities and cancer risk factors, as well as a pamphlet from NJDHSS titled *Environmental Exposures and Your Health*. Additionally, I have enclosed excerpts on lymphoma and melanoma, as well as cancers of the breast, lung, ovary, and pancreas, from the American Cancer Society (ACS) publication titled *Cancer Facts and Figures 2011*. Please also find enclosed excerpts from online ACS publications on bone, liver and esophageal cancers, in addition to cancers of unknown primary. You may wish to contact ACS at 1-800-ACS-2345 or http://www.cancer.org for information about cancer and resources for people with cancer in your area. If you would like more information on the prevention, early detection and treatment of cancer, you can find valuable information from NCI at 1-800-4-CANCER or http://www.nci.nih.gov.

We would like to find out if the information that we have provided to you has been helpful, so that we can better assist others in the future. Please take a moment to fill out the enclosed *Cancer Inquiry Feedback Form* and mail it back to us in the accompanying postage-paid envelope. Your assistance would be greatly appreciated. Please feel free to call me at the Environmental and Occupational Health Surveillance Program with any additional information or questions that you may have. I can be reached Monday through Friday between 9:00 AM and 5:00 PM at (609) 826-4984.

Sincerely,

Raj P. Gona, MPH, MA, CPH
Research Scientist
Cancer Surveillance Unit

encl.
cc: Sandra S. Van Sant, MPH, APN, Health Officer
Monmouth County Regional Health Commission #1

Robert R. Steinhagen, Environmental Specialist
Site Remediation Program, NJDEP

Erwin H. Flesch, Environmental Specialist
Site Remediation Program, NJDEP

1104

Report of Incident/Complaint

12/13/2011

Incident Date:

Incident Id: 41456

Incident Type Desc: Soil Contamination

DEP Region: Southern - SRP

Incid Link ID#: 10454

Program: Site Remediation

Recd Date Time: 11/21/2002 12:04:01

Incident Status Desc: Terminated

Trenton Dispatch Num: 02-11-21-1149-04

Substances Involved

Incident Description

FOUND CONTAMINATION OF SOIL SOME TIME AROUND 1999.

Substance	CAS Number	Quantity	Units
LEAD	7439921	0	unknown
Impacts To:	Land	**Waterbody:**	

Incident Location

DPW

Addr: 5TH /MONMOUTH AVES

Municipality: Spring Lake Boro

County: Monmouth

Block, Lot:

Follow-Up Priority:

Incident Source/Responsible Party

Name: PUBLIC WORKS WATER TREATMENT PLA

Addr: MONMOUTH & 5TH AVES

Phone #:

Munic: Spring Lake Boro

State: NJ

Verified:

County: Monmouth

Permit/Case#:

Reported By: DEP

Name: BOB STEINHAGEN

Municipality: Trenton City

Addr: 401 EAST STATE ST

County: Mercer

Phone #: 609-633-1472

Confidential:

Case Status: Referred

as of: 12/3/2002

Lead DEP Investigator/Contact: Steinhagen, Robert

Action/Activity

Task	Assigned Staff	Due Date	Completed Date	Hrs Spent	Incident Action Comments	Organization	User ID Last Updt	Dt/Time Last Updt
Notification - Fax			11/21/02			Case Assignment Section	CGROSS	12/3/02 14:45
Notification - A310			11/21/02			SPRING LAKE BOROUGH	CGROSS	12/3/02 14:45
Notification - Fax			11/21/02			NJDOH - HAZMAT	CGROSS	12/3/02 14:45
Notification - Fax			11/21/02			Haz Waste - Central	CGROSS	12/3/02 14:45
Referred to	Steinhagen, Robert		11/21/02			SR-BUST	CGROSS	12/3/02 14:45
Notification - Email	Steinhagen, Robert					SR-BUST	CGROSS	12/3/02 14:45

Reporter Comments

BM/EK/KS

MASTERFILE SITE ID # 00044343

State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Memorandum

To: Kevin Kratina, Bureau Chief
Bureau of Underground Storage Tanks

From: Ralph Downs, Supervisor
Case Assignment Section

Subject: Executed Memorandum of Agreement

Site Name: Spring Lake Boro DPW WTP

Site Address: Monmouth + 5th Aves

Program Interest ID#: 009736 **Job Code:** ~~009736~~ A0563900

Activity Type: PA

NJEMS Document Title: 02 11 21 1149 04

Case Type: 1) (MOA) / HOMEOWNER / IND FACILITY / COMMERCIAL / MOU / Non Reg UST

2) _____

Confirmed Contamination: (Yes) / No / Unknown Remedial Level: C2

Reports Submitted with the MOA Application? Yes / (No)

Previous AA or TBA record? If yes, record ID # ATP to Bob Steinhagen

Initials: MD Date: 3/20/03

****

Attach is the Memorandum of Agreement document for the above referenced site. This case is being transferred to you via NJEMS based on the remedial phase(s) cited in the attached Memorandum of Agreement and the remedial level of the case.

Please locate the appropriate Document in the NJEMS database, electronically approve the transfer and assign the case within your Bureau. Please keep this memorandum for your records. Your office no longer needs to return a signed form.

If you have any questions regarding the assignment of this case please notify the Case Assignment Section at 292-2943.

State of New Jersey
Department of Environmental Protection
P. O. Box 434, Trenton, NJ 08625-0434

James E. McGreevey
Governor

Bradley M. Campbell
Commissioner

MAR 2 4 2003

Thomas J Byrne III
Borough of Spring Lake
Fifth & Warren Aves
Spring Lake, NJ 07762

Re Spring Lake Borough DPW, Spring Lake Boro, Monmouth County
Case No: 02-11-21-1149-04
Block: 26 Lots: 1

Dear Mr. Byrne III:

The purpose of this letter is to provide you with written notification that Department of Environmental Protection has reviewed the Memorandum of Agreement application for the above referenced site and determined that it is administratively complete. This letter constitutes the Memorandum of Agreement by rule pursuant to N.J.A.C. 7:26C-3.3. The date of this letter is considered the effective date of the Memorandum of Agreement.

Within thirty (30) calendar days from the effective date of the Memorandum of Agreement, you are required to submit to the Department a schedule of implementation of those activities and/or phases enumerated in the Memorandum of Agreement. If all remedial activities required by this Memorandum of Agreement are completed, then please submit a schedule of when required documents will be submitted. This schedule is needed to assure that Department personnel can be appropriately assigned to this matter to ensure timely response by the Department.

Until a case manager is assigned, your contact for the Department concerning all matters addressed by the Memorandum of Agreement is Kevin Kratina. Please contact Kevin Kratina at 609-292-8761 if you have any questions.

All reports should be sent to :
New Jersey Department of Environmental Protection
Division of Remediation Management Response
Bureau of Southern Case Management
401 East State Street – P.O. Box 028
Trenton, New Jersey 08625-0028

Attention: Kevin Kratina, Bureau Chief

Enclosed is a copy of the certification that must accompany all submittals to the Department.

Sincerely,

Ralph Downs

Ralph Downs, Supervisor
Case Assignment Section

Enclosures

C Monmouth County Health Department

MEMORANDUM OF AGREEMENT FOR NON-RESIDENTIAL PROPERTIES

This Memorandum of Agreement (Agreement) has been developed so that any party interested in conducting a cleanup at a non-residential property can do so with oversight from the Department. The Department will provide oversight as long as the Department is reimbursed for the cost of its review. This Agreement must be completed in its entirety by the party interested in conducting the cleanup activities and/or the party's authorized agent, and shall include a fully executed copy of the attached certification. The Department can not process any applications unless all the information requested is complete and all questions are answered to the satisfaction of the Department. Once completed the Agreement must be submitted to the following address:

Division of Responsible Party Site Remediation
Bureau of Field Operations
401 East State Street, PO Box 434
Trenton, NJ 08625-0434

Attention: Bureau Chief - Case Assignment Section

(609) 292-2943

Answer all questions as completely as possible. If you have any questions when completing this form, it is recommended that you contact the Case Assignment Section at (609) 292-2943 between the hours of 8:00 AM and 5:00 PM for assistance.

This Agreement is entered into pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (hereinafter "the Department") by N.J.S.A. 13:1D-1 et seq. and N.J.S.A. 58:10B et seq. and the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq. and the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11 et seq. and duly delegated to the Section Chief, Division of Responsible Party Site Remediation, Bureau of Field Operations pursuant to N.J.S.A. 13:1B-4.

This Agreement is to be used as a formal request for Department oversight of cleanup activities pursuant to the Procedures for Department Oversight of the Remediation of Contaminated Sites (N.J.A.C. 7:26C et seq.)and review of reports submitted pursuant to the Technical Rules for Site Remediation (N.J.A.C. 7:26E et seq.).

MEMORANDUM OF AGREEMENT FOR NON-RESIDENTIAL PROPERTIES

CASE NUMBER ~~98-11-12-0857-49~~ 02-11-21-1149-04 DATE January 16, 2003

A. Current Use: Agricultural _____ Industrial _____ Undeveloped _____

Commercial _____ Other X

B. Site Name Borough of Spring Lake DPW

C. _____

Street Address Fifth and Monmouth Avenues

_____

_____ Zip Code 07762

Municipality Spring Lake County Monmouth County

Tax Block and Lot Number(s) Block-26, Lot-1

MAR 17 2003

Latitude 40.1464 Longitude 74.0360

Acreage 6.97

Geographic Boundaries Wreck Pond along Southern Property Line

EPA ID # (if applicable) NA

C. **Who will be executing this Agreement?** (if different than Question B)

Name Thomas J. Byrne III

Affiliation Mayor

Address Fifth and Warren Avenues

City Spring Lake State NJ Zip Code 07762

State of Incorporation New Jersey Corp. Status Municipality

Telephone # 732-449-0800

D. Select which phase(s) of the cleanup process are to be performed and what document(s) are to be submitted pursuant to the Agreement being requested.

	REMEDIAL PHASE		DOCUMENTS TO BE SUBMITTED
[x]	Preliminary Assessment	[x]	Preliminary Assessment Report
[ ]	Site Investigation	[ ]	Site Investigation Report
[ ]	Remedial Investigation	[ ]	Remedial Investigation Workplan
[ ]	Remedial Action	[ ]	Remedial Investigation Report
		[ ]	Remedial Action Selection Report
		[ ]	Remedial Action Workplan
		[ ]	Remedial Action Report

E. **Current Site Owner(s)**

Name(s) Borough of Spring Lake

Firm Borough of Spring Lake Telephone # 732-449-0800

Street Address Fifth and Warren Avenues

Municipality Spring Lake

State New Jersey Zip Code 07762

F. **Current Business Operator(s)**

Name(s) Borough of Spring Lake DPW

Firm Borough of Spring Lake

Telephone # 732-449-7693 Street Address Fifth and Monmouth

Municipality Borough of Spring Lake State New Jersey Zip Code 07762

G. **Current Business Owner(s)** (if different than question Part E. or F.)

Name(s)_____

Firm _____ Telephone # _____

Street Address _____

Municipality _____

State _____ Zip Code _____

H. Provide the information requested below on the previous owners of the site and the entities who operated at the site.

Name	Owner or Operator	From	To
Borough of Spring Lake	Borough of Spring Lake DPW	1905	Present

I. For those former Owner(s) and/or Operator(s)identified above (in paragraph H), give a brief discussion of all operations at the site, including but not limited to types of operations, materials used, waste generated, and waste disposal techniques.

Borough of Spring Lake DPW- From 1905 to the present the property has been used as a water works yard and public works yard. An incinerator was used to burn municipal waste and later vegetative waste until the early 1970's.

J. Are there currently or have there ever been any notices on the deed which constitute a Declaration of Environmental Restriction (DER) pursuant to N.J.A.C. 7:26E-1 et seq.?

Yes ____ No __x__ Unknown ____

If yes, please state the name of the site as it was identified in the DER, the address, lot and block and EP ID number (if applicable) associated with the site.

_____

_____

_____

K. Are there currently, or have there ever been any hazardous substances as defined by N.J.A.C. 7:1E-1 et seq., used, treated, stored, disposed or discharged at the site (ie. fuel oil, gasoline)?

Yes __x__ No ____

L. Are there currently, or have there ever been any hazardous wastes as defined by N.J.A.C. 7:26G-16 et seq., used, generated, treated, stored, disposed or discharged at the site?

Yes _X_ No ____ Unknown ____

M. Are there currently, or have there ever been, any above or below ground storage tanks at the site?

Yes __x__ No ____ Unknown ____

N. Did the discharge impact groundwater?

Yes _x___ No ____ Unknown_____

O. What are the current operations at the site?

Borough of Spring Lake water works yard, public works yard and residential recycling center.

P. What are the intended future uses of the site?

Borough of Spring Lake Department of Public Works Yard, residential recycling collection center and water works yard.

Q. Describe briefly the major types of contaminants found at the site and what media they affect.

Lead was detected in the soil.

R. Describe in detail how the contamination came to exist at the site. For example, were there past spills, landfill operations, industrial septic systems, USTs, deposition of fill material, etc.?

Release from an onsite municipal solid waste incinerator

S. List any civil/criminal actions taken against the owner/operator, managers or officials associated with the site for violations of any environmental laws or statutes.

Check here if no violations or alleged violation [x]

Date of action _____

Section of law or statute violated _____

Type of enforcement action _____

Description of the violation _____

_____

How was the violation or alleged violation resolved?

_____

_____

T. List all permits currently held by the applicant for the site. (NJPDES, RCRA, etc.)
BWA permit, Public water supply permit, Solid waste permit for recycling

U. Has a Hazardous Discharge Site Remediation Fund Grant or Loan Application been filed with the Department?

Yes ____ No __x__

V. Has a loan/grant application pursuant to the Underground Storage Tank Finance Act been filed with the Department?

Yes ____ No __x__

W. Is the site located in a Neighborhood Empowerment Zone as defined in P.L.1996,c.62 (New Jersey Urban Redevelopment Act) ?

Yes ____ No _x___ Unknown ____

X. Who will be the contact for all matters of this application?

Name Thomas J. Byrne III Title Mayor

Affiliation Municipality owns property Phone 732-449-0800

Address Fifth and Warren Avenues

City/Town Borough of Spring Lake State New Jersey Zip Code 07762

Y. Is the site currently, or has it ever been, under the oversight of any other program within the Department of Environmental Protection?

Yes ____ No __x__

If Yes, explain: _____

Z. Do you consider this site to be a Brownfield as defined below:

Any former or current commercial or industrial site that is currently vacant or underutilized and on which there has been, or there is suspected to have been, a discharge of a contaminant.

OR

Is the remediation being conducted with the intent to pursue redevelopment?

Yes ____ No __x__

The following certification shall be signed by the highest-ranking individual with overall legal responsibility for implementing the remediation of a site, but shall not include contractors or consultants.

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or;
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.

A duly authorized representative of those persons described above may also sign the certification. A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having a responsibility for the overall operation of the site or activity, such as the position of plant manager, or a superintendent or person of equivalent responsibility (a duly authorized representative may thus be either a named individual or an individual occupying a named position);
3. The written authorization is submitted to the Department; and
4. If the authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of this subsection shall be submitted to the Department prior to or together with any reports, information or applications to be signed by an authorized representative.

" I certify that I am fully aware of the requirements of N.J.A.C 7:26C-3, specifically as it pertains to the memorandum of agreement by rule. Further, I agree to pay the Department's oversight costs for the Department's review of any submissions pursuant to the memorandum of agreement until such time as I notify the Department that it is no longer feasible or desirable for me to continue with the memorandum of agreement."

SIGNATORY

Date: 3/11/03 BY: _____

Signature

Thomas J. Byrne, III

Print Full Name Signed Above

Date: 3/11/03 BY: _____

Notary Signature

MARY ANNE COOGAN
Notary Public Of New Jersey
My Commission Expires Jan. 30, 2008

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Date: 3/20/03 BY: _____ for

Vincent S. Krisak, Section Chief

The Department will review the application and will respond in writing, within thirty calendar days from receipt of the application, as to whether the application is administratively complete or not. If the application is incomplete the deficiencies shall be listed. If the application is complete, the applicant will be deemed to have entered into an Agreement by rule pursuant to N.J.A.C. 7:26C-3.3.

New Jers · Department of Environmental P· ·ection
COMMUN.·ATION CENTER NOTIFICATION ·EPORT

Received: 11/21/2002 12:04:01 Comm. Center #: 02-11-21-1149-04

Operator: 4 Reviewed By:_____

Reporter Type: Other

Reported By: BOB STEINHAGEN Affiliation: DEP Phone: 609-633-1472

Street Address: 401 EAST STATE ST, Municipality: Trenton City State: NJ

Incident Category: Other

Location Description: DPW

Address: 5TH /MONMOUTH AVES

Municipality: Spring Lake Boro County: Monmouth State: NJ Zip Code:

Location Type: Commercial Occurred Date: Occurred Time:

Substance Released: LEAD Amount Released: 0 Units: unknown Unknown

ID: Known State: Solid CAS#: 7439921 Incident Status at Time of Report: Terminated

Substance Contained: No HAZMAT: Yes TCPA: No Haz Waste:

Incident Type: Soil Contamination Incident Type 2:

Injuries: No Public Evac: No Facility Evac: No Public Exposure: No Police At Scene: No

Firemen At Scene: No Dep Requested: No Road Closure: No Wind Speed/Direction:

Contamination Of: Land

Watershed: Other Watershed:

Incident Description: FOUND CONTAMINATION OF SOIL SOME TIME AROUND 1999.

Responsible Party Name: PUBLIC WORKS WATER TREATMENT PLA Responsible Party Phone:

Responsible Party Street Address: MONMOUTH & 5TH AVES,

Municipality: Spring Lake Boro County: Monmouth State: NJ Zip Code: 07762

Officials Notified

Name	Affiliation	Phone	Date	Time	Action
	Case Assignment Section		11/21/2002	12:11	Notification - Fax
OPER 210	SPRING LAKE BOROUGH	732-449-1234	11/21/2002	11:54	Notification - A310
	NJDOH - HAZMAT		11/21/2002	12:11	Notification - Fax
	Haz Waste - Central		11/21/2002	12:11	Notification - Fax
	SR-BUST		11/21/2002	0:00	Referred to
	SR-BUST				Notification - Email

Comments:

CASENUMBER: 98-11-12-0857-49

TD_LOG: 34593 CASENUMBER: 98-11-12-0857-49

RECEIVED: 1/12/1998 NOTIFYTY: Facility INCDATE: 9/8/1998

LOCATION: Other LOC_PHON:

LOC_SITE: SPRING LAKE DPW

LOC_STRE: 5TH & MONMOUTH AVES

LOC_MUNI: SPRING LAKE LOC_COUN: MONMOUTH COMU: 1348

SUBSTANCE INF

QUANTITY	AMOUNT	UNIT	SPILLTYPE
Known	0	UNKNOWN	Terminated

STATUS: ONE 1000 GAL UST REMOVED. SAMPLES SHOW CONTAMINATION. UST#0097365 NO TMS#.

RESPNAME: SPRING LAKE DPW

RESPSTREE: 5TH & WARREN AVES CONTAMIN: Land

RESPMUNI: SPRING LAKE RESPCOUNT: MONMOUTH RESPSTATE: NJ

RESPCONT: ROBERT WINEMILLER

OFFNAME: OFFILIATE: DRPSR OFFDATE: 11/12/1998

02-11-21-1149-38

(732) 449-0800

Borough of Spring Lake

Fax (732) 449-8797

Fifth & Warren Avenues
Spring Lake, New Jersey 07762

March 13, 2003

Division of Responsible Party Site Remediation
Bureau of Field Operations
401 East State Street
P.O. Box 434
Trenton, New Jersey 08625-0434

Attn: Bureau Chief – Case Assignment Section

Dear Sir:

Enclosed please find certified copies of Resolution No. 25, which was adopted by the Mayor and Council of the Borough of Spring Lake, authorizing the Mayor to sign the Memorandum of Agreement For Non-Residential Properties for Lot 1 in Block 26, the Borough Yard of the Borough of Spring Lake.

I have also enclosed three(3) copies of the MOA, which have been signed and notarized by Spring Lake. Would you kindly ask Mr. Krisak to sign the MOA on behalf of the NJDEP and return one completed copy to the undersigned for our files.

For the Mayor and Council, I am

Very truly yours,

Mary Anne Coogan, RMC
Borough Clerk

Enclosures: 5

C: Administrator Ferguson

Spring Lake

Resolution No. 25
February 25, 2003

RESOLUTION

WHEREAS, it is in the interest of the Borough of Spring Lake to enter into a Memorandum of Agreement ("MOA") with the N.J. Department of Environmental Protection, through their Voluntary Cleanup Program, to address the lead concentrations detected at the DPW site.

WHEREAS, by utilizing the MOA it provides a mechanism to obtain a sign-off from the NJDEP for their review of the Preliminary Assessment, the Site Investigation or any other report submitted for the DPW site.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the Borough of Spring Lake, County of Monmouth, State of New Jersey, that the Mayor be authorized to sign the Memorandum of Agreement for such purposes as stated above.

I hereby certify the foregoing to be
A true copy of a resolution adopted
By the Mayor and Council of the
Borough of Spring Lake on 2/25/03.

Mary Anne Coogan, RMC
Borough Clerk

Resolution No. 25
February 25, 2003

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I hereby certify the foregoing to be
A true copy of a resolution adopted
By the Mayor and Council of the
Borough of Spring Lake on 2/25/03.

Mary Anne Coogan, RMC
Borough Clerk

CERTIFICATIONS
N.J.A.C. 7:26-1.2 et. Seq.

Any person making a submission to the Department required by this chapter and pursuant to N.J.SA.C. 7:26E, shall include the following signature and notarized certification, for each technical submittal. Additionally, the certification shall indicate the case name and address, case number, type of documents submitted, e.g. Remedial Action Report, for each technical submittal.

TYPE OF DOCUMENT Preliminary Assessment Report

CASE NAME Borough of Spring Lake

CASE ADDRESS Monmouth and Fifth Avenues, Spring Lake, Monmouth County, New Jersey

CASE NUMBER 98-11-12-0857-49

The following certification shall be signed by:

1. For a corporation, by a principal executive officer of tat least the level of vice president;
2. For a partnership or sole proprietorship, by general partner of the proprietor, respectively, or;
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.
4. For persons other than 1 through 3 above, the person with legal responsibility for the site.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement that I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

PRINTED NAME Thomas A. Ferguson TITLE Borough Administrator

SIGNATURE [signature] DATE 6/13/02

NOTARY SIGNATURE [signature] DATE 6/13/02

MARY ANNE COOGAN
Notary Public Of New Jersey
My Commission Expires Jan. 30, 2006

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Bureau of Underground Storage Tanks
P.O. Box 433
401 East State Street
Trenton, NJ 08625

Thomas J. Byrne III, Mayor
Borough of Spring Lake
Fifth and Warren Avenues
Spring Lake, NJ 07762

AUG 01 2000

Re: Borough of Spring Lake DPW
Fifth and Monmouth Avenues
Spring Lake Monmouth County
Case# 98-11-12-0857-49
UST# 0097365
Remedial Investigation Addendum Report Dated: June 27, 2000

Dear Mr. Byrne:

The Department of Environmental Protection (Department) has reviewed the above referenced report submitted by T&M Associates on behalf of Borough of Spring Lake (BSL) documenting soil and ground water sampling that has taken place on site.

Remedial Investigation

In March of 2000, twelve soil samples were collected from six soil borings advanced in a presumed downgradient direction of the former leaded gasoline tank and analyzed for lead to further delineate same. Analytical results indicated the presence of lead in ten samples with concentrations ranging from 330 parts per million (ppm) to 8,410 ppm. In addition, two samples were also analyzed for priority pollutant metals. No contamination was detected exceeding any Department soil cleanup criteria for the additional parameters.

During the same period, one monitoring well was installed proximate to the area of concern noted above and was subsequently sampled for benzene, toluene, ethylbenzene, total xylenes, methyl tertiary butyl ether, tertiary butyl alcohol and lead. Analytical results indicated no contamination exceeding the Ground Water Quality Standards (GWQS).

Proposals

BSL requested no further action be required at the site stating that lead concentrations in soil are not leaching into ground. This contention is based upon a toxicity characteristic leaching procedure analysis conducted on the two samples containing the greatest lead concentrations. BSL further states that the lead concentrations are within a zone of fill apparently from the former municipal incinerator.

Department Conditions/Requirements

Be advised that no further remediation is required at the former 1,000 gallon leaded gasoline tank.

Based upon the information documented above, the lead concentrations noted on site are not related to the material stored in the underground storage tank (UST) systems. In order to identify any additional areas of concern that may be contributing to the noted contamination, a Preliminary Assessment (PA), pursuant to N.J.A.C. 7:26E-3 is necessary. To address the contamination noted above, a site investigation (SI) pursuant to N.J.A.C. 7:26E-3 is necessary. Pursuant to N.J.A.C. 7:26E, all contamination identified on-site above cleanup criteria would require remediation.

At this time, BSL has the option of conducting the PA/SI, within BUST, utilizing the current case manager. Please be advised, if BSL does not choose to address the contamination at this time, BUST will issue an no further action (NFA) determination for the regulated underground storage tanks and the remaining contamination would need to be addressed through a Memorandum of Agreement (MOA) with the Department. It should be noted that conducting the PA/SI is a **voluntary** process, either in BUST or through an MOA.

If BSL has not investigated this "non-UST" contamination at the time the Department issues a NFA for the regulated UST(s), the NFA will only address the regulated UST issue(s) and the "non-UST" issue will be referenced as remaining outstanding. The case would remain on the Known Contaminated Site List for the "non-UST" issue(s), and await assignment until such time that it is determined to be a Department priority, or BSL voluntarily enters into an MOA.

BSL shall notify the Department of its intentions within 30 days of receipt of this letter.

If you should have any questions regarding this matter, please contact Bob Steinhagen, Case Manager, of the Bureau of Underground Storage Tanks at (609) 633-1472.

Sincerely,

William Patterson, Supervisor
Bureau of Underground Storage Tanks

c: John Vanderslice
T&M Associates

ELEVEN TINDALL ROAD MIDDLETOWN, NEW JERSEY 07748-2792
(732) 671-6400 • Fax (732) 671-7365 • www.tamace.com • info@tamace.com

TM ASSOCIATES

SPLK-00060.A.A.

June 27, 2000

Bob Steinhagen, Case Manager
NJDEP - Bureau of Underground Storage Tanks
401 E. State Street
P.O. Box 433
Trenton, NJ 08625-0433

Re: Borough of Spring Lake - Department of Public Works
Remedial Investigation Addendum Report Submittal

Dear Mr. Steinhagen:

Enclosed is the Remedial Investigation Report Addendum (RIRA) for the above referenced site.

The RIRA summarizes activities performed in accordance with your letter dated December 9, 1999. All activities were performed in accordance with NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

We have also enclosed the Hazsite Electronic Data Submittal for your review.

If you have any questions please call.

Very truly yours,

CHARLES J. ROONEY, P.E.
BOROUGH OF SPRING LAKE ENGINEER

JOHN E. VANDERSLICE, P.E.
PRINCIPAL HYDROGEOLOGIST

RECEIVED
JUN 29 2000

JEV:TP:sec
Enclosures
cc: Thomas J. Byrne, III, Mayor
Mary Anne Coogan, Clerk
Wayne Patterson, Councilman
H:\SPLK\00060\UST\CORRESP\SteinhagenRIRA.doc

REMEDIAL INVESTIGATION REPORT ADDENDUM

Borough of Spring Lake Department of Public Works
Fifth and Monmouth Avenues
Block 26, Lot 1
Spring Lake, Monmouth County, New Jersey
UST Registration #0097365
NJDEP Case #98-11-12-0857-49

June 2000

Prepared For:

Borough of Spring Lake
Fifth and Warren Avenues
Spring Lake, NJ 07762

Prepared By:

John E. Vanderslice, P.G.
Principal Hydrogeologist
Certification No. 001260

T&M Associates
11 Tindall Road
Middletown, NJ 07748

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TABLES

1. Area of Concern Soil Sampling Summary
2. Summary of Soil Analytical Results for Lead (03/01/2000)
3 Summary of Soil Analytical Results for T.C.L.P. Metals (03/01/2000)
4. Summary of Field Parameters
5. Summary of Groundwater Analytical Results (03/31/2000)

FIGURES

1. Site Location Map
2. Site and Sample Location Map

APPENDICES

A. Sampling Quality Assurance / Quality Control
B. Soil Boring Logs
C. Laboratory Analytical Data - Soil
D. Monitoring Well Log
E. Laboratory Analytical Data - Groundwater

1.0 INTRODUCTION

In response to the New Jersey Department of Environmental Protection (NJDEP) letter dated December 6, 1999, T&M Associates was contracted by the Borough of Spring Lake to address the requirements of the above mentioned letter. On March 1, 2000 one monitoring well was installed by Shore Drilling, Inc. (NJ license # J1540) , under the supervision of a T&M Associates NJDEP subsurface evaluator (certification #0019674). Also on March 1, 2000, twelve soil samples were collected for lead analysis. The site work was conducted at the Borough of Spring Lake Department of Public Works Yard at 5th and Monmouth Avenues, Monmouth County, New Jersey. Figure 1 is an annotated United States Geological Survey (USGS) 7.5-minute series quadrangle map (Asbury Park, NJ) of the area showing the site location, local topography, drainage and cultural features.

Results from this investigation are presented in accordance with the reporting and recordkeeping requirements stated in the Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

2.0 PHYSICAL SITE SETTING

2.1 Site Description

The Department of Public Works property is located between Fifth Avenue to the east, Monmouth Avenue to the north, Wreck Pond to the south, and the New York and Long Branch Railroad to the West. The property occupies approximately seven acres and is currently indicated as Tax Lot 1 of Block 26 in the Borough of Spring Lake, Monmouth County, New Jersey. According to the USGS the site is approximately 15 feet above mean sea level.

The topography onsite is generally flat with eight existing structures, the locations of which are shown on the site map (Figure 2). The nearest body of water to the site is Wreck Pond located along the southern boundary of the site.

The property is located at approximately 40^0 08' 46.9" north latitude and 74^0 02' 10.3" west longitude. A Site Plan depicting the property boundaries and relevant site features is presented as Figure 2.

2.2 Geology/Hydrogeology

According to *New Jersey Special Report No. 23, Groundwater Resources of Monmouth County*, the site is located within the Atlantic Coastal Plain Physiographic Province of New Jersey. The site is within the outcrop area of the Kirkwood Formation, which consists mostly of sand, typically light-colored, interbedded with and overlying dark-gray or brown clay-silt. The Kirkwood Formation is underlain by the Shark River Formation, and, locally, the Vincentown Formation and Hornertown Sand. The Kirkwood Formation is part of the Kirkwood-Cohansey aquifer system which is predominantly a water-table aquifer in the area of the site. The reported yield of wells tapping this aquifer ranges from 15 to 1,236 gallons per minute.

The underlying formations range in age from lower Miocene and older. The Shark River Formation, being mostly clayey, probably functions as an aquiclude. The Vincentown Formation is considered an aquifer, however it is not often used as such due to limited aerial extent and decreasing thickness towards the southeast. The Hornerstown Sand Formation usually serves as an aquiclude due to it's clayey content.

Site geology in the area of the former 1,000-gallon UST system, to an approximate depth of 8 feet below grade, generally consists of orange to brown fine to medium sandy clay, with some gravel and meadow-mat at approximately 7.5 to 8 feet below grade. There also exists in this area of the site, evidence of past filling activities. The fill is composed of ash, glass, and metal scrap most probably from an incinerator formerly operated and located on the southwestern corner of the site.

2.3 Groundwater

Groundwater was encountered on-site in the location of the former 1,000-gallon leaded gasoline UST system at approximately 4 feet below grade.

3.0 SOIL INVESTIGATION

All soil sampling procedures conducted at the site were in accordance with the *NJDEP Field Sampling Procedures Manual,* dated May 1992 and N.J.A.C. 7:26E, Technical Requirements for Site Remediation. All laboratory analytical services were provided by STL Envirotech, Inc. of Edison, New Jersey (NJDEP Certified Laboratory Identification Number 12543). A soil sampling summary is included as Table 1 and soil sampling analytical results are included as Tables 2 and 3. A copy of the sampling Quality Assurance / Quality Control Procedures is included in Appendix A.

3.1 Former 1,000-Gallon Leaded Gasoline UST Location

On March 1, 2000, twelve subsurface soil samples (SB-1A, SB-1B, SB-2A, SB-2B, SB-3A, SB-3B, SB-4A, SB-4B, SB-5A, SB-5B, SB-6A and SB-6B) were collected from within six boreholes located in the vicinity and downgradient of the former 1,000-gallon leaded gasoline UST excavation. All samples were analyzed for total lead. Additional analysis was performed on samples with the highest lead results (SB-1B and SB-6B) for toxicity characteristic leaching procedure (TCLP) metals. The laboratory analytical results for lead ranged from 4.8 mg/kg in samples SB-5A and SB-5B, to 8,410 mg/kg in sample SB-6B. Soil boring logs are contained within Appendix B. Copies of the laboratory analytical reports are presented in Appendix C.

4.0 GROUNDWATER INVESTIGATION

4.1 Former 1,000-Gallon Leaded Gasoline UST System

On March 1, 2000, one 4-inch diameter monitoring well, designated MW-1 was installed by Shore Drilling, Inc. (NJ License #J1540), under the supervision of a T&M Associates NJDEP certified Subsurface Evaluator (license #0019674). The location of MW-1 is shown on Figure 2. The monitoring well was constructed using 4-inch diameter, Schedule 40, threaded poly-vinyl chloride (PVC) slotted screen (0.010-inch) and solid casing. Monitoring well was completed at 15 feet below grade using factory slotted screen and casing. A copy of the well completion log is included within Appendix D.

Groundwater sample MW-1 was collected using a bottom-filled bailer and purged using low-flow techniques. The groundwater sample collected was submitted to STL Envirotech, Inc. of Edison, NJ (certification #12028). Applicable protocols regarding sampling, handling, storage, preservation, reporting, decontamination of field equipment and other procedures were followed as outlined in the *NJDEP Field Sampling Procedures Manual*, dated May 1992, Site Remediation Program (SRP) newsletter dated November 1997 "Low-Flow Procedures," and the USEPA "Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells" July 30, 1996 Revision 2. A detailed description of Quality Assurance/Quality Control procedures that were followed is included in Appendix A. A summary of the field parameters measured during purge procedures and during sampling is included in Table 4.

The groundwater sample was analyzed for volatile organic compounds, MTBE, and TBA via EPA Method 624+10 and for lead via EPA Method 200.7. All volatile organic compounds analyzed were reported below the most stringent NJDEP Ground Water Quality Criteria for Class IIA aquifers (GWQCIIA). Lead was detected in sample MW-1 below the NJDEP GWQCIIA for lead of 10 ppb at a concentration of 4.6 parts per billion (ppb). A summary of the laboratory results are included in Table 5. Laboratory analytical report is presented in Appendix E.

5.0 SUMMARY

Soil results for lead ranged in concentration from 4.8 mg/kg to 8,410 mg/kg (residential standard = 400 mg/kg). The highest lead concentration was from a soil sample collected just south (towards Wreck Pond) from the public works yard entrance located on 5th and Atlantic Avenues. The two samples with the highest lead concentrations were further analyzed for (TCLP) to determine if lead or any other metal is leaching fr the incinerator ash fill. Resultant lead concentrations were reported at 0.83 mg/kg and 55.3 mg/kg, well below the residential soil cleanup criterion of 400 mg/kg.

Resultant groundwater analysis reported lead at 4.6 ug/L (micrograms per liter), which is below the groundwater quality standard of 10 ug/L. All other compounds tested were detected below their respective groundwater quality standards.

6.0 RECOMMENDATION

Based on the TCLP analytical results and groundwater sample results for lead, it appears that the elevated total lead concentrations detected in the soil are not leaching into the groundwater and since the elevated lead concentrations are contained within a zone of fill that appears to be from the former municipal incinerator. This zone of incinerator ash fill is capped by two to three feet of clean sand fill and lies above a meadow mat consisting of dark gray clay. The borough of Spring Lake requests "No Further Action" for this site.

This request is being made keeping in mind the current and intended future use of the site as the borough department of public works yard. Furthermore, lead has a limited ability to dissolve in groundwater and therefore a limited ability to travel within the soil and groundwater. Additionally, the lead concentrations are most likely a result of historic fill due to past operations conducted at this site. It appears that the site was formerly marsh-land filled in with incinerator ash from approximately eight feet below grade to approximately two feet below grade. A layer of topsoil was likely applied to the surface at the time the DPW was constructed. The lead contamination is believed to be unrelated to the 1,000-gallon leaded gasoline UST.

Table 1. Area of Concern Soil Sampling Summary

Borough of Spring Lake Department of Public Works
Fifth Avenue and Monmouth Avenue
Borough of Spring Lake, Monmouth County New Jersey

SAMPLE NUMBER	DATE	TIME	DEPTH (feet)	ARAMETER
SB-1A	3/1/2000	11:20 AM	3.5-4.0	Pb
SB-1B	3/1/2000	11:30 AM	7.5-8.0	Pb
SB-2A	3/1/2000	11:50 AM	4.0-4.5	Pb
SB-2B	3/1/2000	11:55 AM	7.5-8.0	Pb
SB-3A	3/1/2000	12:10 PM	4.0-4.5	Pb
SB-3B	3/1/2000	12:15 PM	7.5-8.0	Pb
SB-4A	3/1/2000	12:35 PM	4.0-4.5	Pb
SB-4B	3/1/2000	12:40 PM	7.5-8.0	Pb
SB-5A	3/1/2000	1:00PM	4.0-4.5	Pb
SB-5B	3/1/2000	1:10PM	7.5-8.0	Pb
SB-6A	3/1/2000	1:20PM	4.0-4.5	Pb
SB-6B	3/1/2000	1:30PM	7.5-8.0	Pb

The New Jersey DEP Standards listed reflect current Enviro
guidance for the user. Please consult appropriate NJDEP re

Sample ID	New Jersey Residential	N	SB-3A	SB-3B
Lab Sample Number	Direct Contact		186629	186630
Sampling Date	Soil Cleanup		03/01/00	03/01/00
Matrix	Criteria (mg/kg)		SOLID	SOLID
Dilution Factor			NA	NA
Units			mg/kg	mg/kg
METALS				
Lead	400		799	991

Qualifiers
- U - The compound was not detected at the indicated concentra
- B - Reported value is less than the Method Detection Limit but
- N - The spiked sample recovery is not within control limits.
- NR - Not analyzed.

The New Jersey DEP Standards listed reflect current Enviro
guidance for the user. Please consult appropriate NJDEP r

Sample ID	New Jersey Residential	N	SB-6A	SB-6B
Lab Sample Number	Direct Contact		186635	186636
Sampling Date	Soil Cleanup		03/01/00	03/01/00
Matrix	Criteria (mg/kg)		SOLID	SOLID
Dilution Factor			NA	NA
Units			mg/kg	mg/kg
METALS				
Lead	400		330	8410

Qualifiers
- U - The compound was not detected at the indicated concentra
- B - Reported value is less than the Method Detection Limit but
- N - The spiked sample recovery is not within control limits.
- NR - Not analyzed.

Table 3 Summary of T.C.P.L Metals Soil Analytical Results 03/01/2000

Borough of Spring Lake Department of Public Works
Firth Avenue and Monmouth Avenue
Borough of Spring Lake, Monmouth County New Jersey

The New Jersey DEP Standards listed reflect current Envirotech Research Inc. knowledge of the standards and are intended as general guidance for the user. Please consult appropriate NJDEP regulations and cleanup standards for your specific application.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	SB-1B 190944 03/01/00 SOLID NA mg/l		SB-6B 190945 03/01/00 SOLID NA mg/l
METALS						
Arsenic	20	20	NA	0.12	U	0.26 B
Barium	700	47,000	NA	9.9		5.4
Cadmium	39	100	NA	0.008	B	0.03 B
Chromium	NA	NA	NA	0.017	U	0.017 U
Lead	400	600	NA	0.83		55.3
Mercury	14	270	NA	0.00010	U	0.00010 U
Selenium	**63**	**3,100**	NA	**0.14**	**U**	**0.23 B**
Silver	110	4,100	NA	0.017	U	0.017 U

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit
N - The spiked sample recovery is not within control limits
NR - Not analyzed.

Table 4. Summary of Field Parameters

Borough of Spring Lake Department of Public Works
Fifth Avenue and Monmouth Avenue
Borough of Spring Lake, Monmouth County New Jersey

Well	Date	pH (standard units)	Specific Conductance (millisiemens/cm)	Turbidity (standard units)	Dissolved Oxygen (mg/L)	Temperature (°C)	Salinity (%)
MW-1	3/31/1998	7.03	0.39	22.00	2.35	11.30	0.01

Table 5. Summary of Groundwater Analytival Results (03/31/2000)

Borough of Spring Lake Department of Public Works
Fifth Avenue and Monmouth Avenue
Borough of Spring Lake Department of Public Works

The New Jersey DEP Standards listed reflect current Envirotech Research Inc. knowledge of the standards and are int as general guidance for the user. Please consult appropriate NJDEP regulations and cleanup standards for your specific application.

Sample ID	New Jersey Higher of	MW-1	Trip_Blank
Lab Sample Number	PQLs and	194422	194423
Sampling Date	Ground Water Quality	03/31/00	03/30/00
Matrix	Criteria (ug/l)	WATER	WATER
Dilution Factor		1.0	1.0
Units		ug/L	ug/L
VOLATILE COMPOUNDS (GC)			
TBA	NA	20U	20U
MTBE	70^	7.3	21U
Benzene	1	0.25U	22U
Toluene	1,000	0.27U	23U
Ethylbenzene	700	0.27U	24U
Xylene(Total)	1000^	0.25U	25U

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking W maximum containment level changes and the Febraury 5, 1997 policy memo issued by assistant Commisioner R. Gimm

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation but greater than zero.
The concetration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination environmental sample.
NR - Not analyzed.

Sample ID	New Jersey Higher of	MW-1	Trip_Blank
Lab Sample Number	PQLs and	194422	194423
Sampling Date	Ground Water Quality	03/31/00	03/30/00
Matrix	Criteria (ug/l)	WATER	WATER
Dilution Factor		NA	
Units		ug/l	
METALS			
Lead	10	4.6	NR

Qualifiers

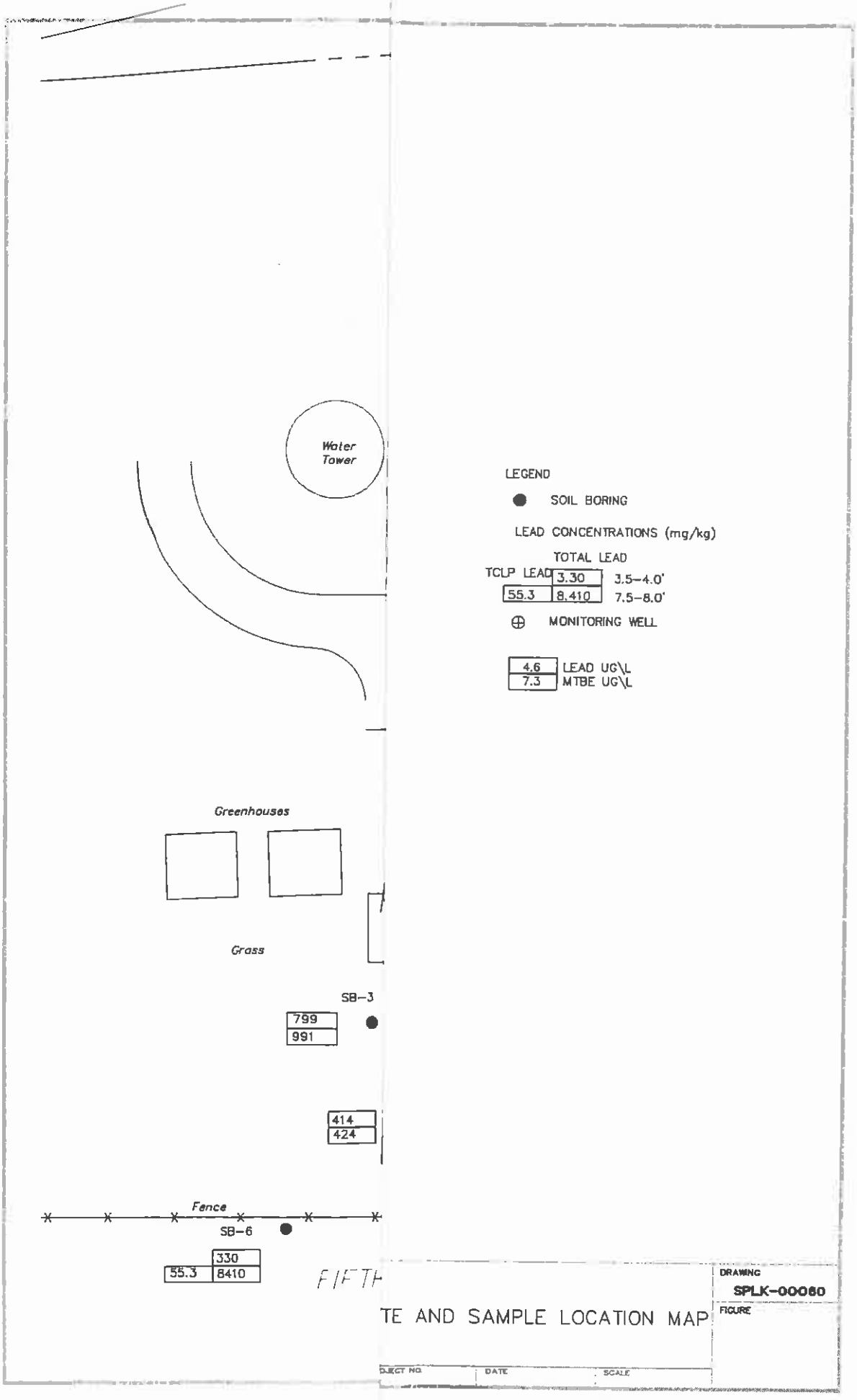
U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NR - Not analyzed.

BOROUGH OF [illegible] LAKE DEPARTMENT OF PUBLIC WORKS
5TH AND MONMOUTH AVENUES

REFERENCE
[illegible] QUADRANGLE

TM

SITE LOCATION MAP


Water Tower
Greenhouses
Grass
Fence
SB-3
799
991
414
424
SB-6
330
55.3
8410
LEGEND
SOIL BORING
LEAD CONCENTRATIONS (mg/kg)
TOTAL LEAD
TCLP LEAD
3.30
3.5-4.0'
55.3
8,410
7.5-8.0'
MONITORING WELL
4.6
LEAD UG\L
7.3
MTBE UG\L
FIFTH
TE AND SAMPLE LOCATION MAP
DRAWING
SPLK-00060
FIGURE
DJECT NO.
DATE
SCALE

Soil Boring Log: SB-1

Project Name: Spring Lake Department of Public Works	Owner: Borough of Spring Lake
Project Location: Fifth an Monmouth Avenues	Boring Permit Number:
Tax Map Address: Block 26, Lot 1	Project Number: SPLK-00060
ISRA (ECRA) Case Number: 98-11-12-0857-49	Total Depth: 48.0 feet
Drilling Method: Hollow stem auger	Borehole Diameter: 2 inches
Driller: Shore Drilling, Inc.	Sampling Method: Split-spoon
Boring Completion Date: March 1, 2000	Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				.5'-3.5 Sand and gravel.
-2-				
-3-				
	SB-1A			3.5'-5.5' Ash fill
-4-				
-5-				
				5.5'-8.0' Sand, clay and ash fill, with meadow mat
-6-				at 8.0 feet.
-7-				
	SB-1B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-2

Project Name: Spring Lake Department of Public Works	Owner: Borough of Spring Lake
Project Location: Fifth an Monmouth Avenues	Boring Permit Number:
Tax Map Address: Block 26, Lot 1	Project Number: SPLK-00060
ISRA (ECRA) Case Number: 98-11-12-0857-49	Total Depth: 48.0 feet
Drilling Method: Hollow stem auger	Borehole Diameter: 2 inches
Driller: Shore Drilling, Inc.	Sampling Method: Split-spoon
Boring Completion Date: March 1, 2000	Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				.5'-3.5 Sand and gravel.
-2-				
-3-				
	SB-2A			3.5'-5.5' Ash fill.
-4-				
-5-				
				5.5'-8.0' Sand, clay and ash fill, with meadow mat
-6-				at 8.0 feet
-7-				
	SB-2B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-3

Project Name: Spring Lake Department of Public Works	Owner: Borough of Spring Lake
Project Location: Fifth an Monmouth Avenues	Boring Permit Number:
Tax Map Address: Block 26, Lot 1	Project Number: SPLK-00060
ISRA (ECRA) Case Number: 98-11-12-0857-49	Total Depth: 48.0 feet
Drilling Method: Hollow stem auger	Borehole Diameter: 2 inches
Driller: Shore Drilling, Inc.	Sampling Method: Split-spoon
Boring Completion Date: March 1, 2000	Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				.5'-3.5 Sand and gravel.
-2-				
-3-				
	SB-3A			3.5'-5.5' Ash fill
-4-				
-5-				
				5.5'-8.0' Sand, clay and ash fill, with meadow mat
-6-				at 8.0 feet.
-7-				
	SB-3B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-4

Project Name: Spring Lake Department of Public Works	Owner: Borough of Spring Lake
Project Location: Fifth an Monmouth Avenues	Boring Permit Number:
Tax Map Address: Block 26, Lot 1	Project Number: SPLK-00060
ISRA (ECRA) Case Number: 98-11-12-0857-49	Total Depth: 48.0 feet
Drilling Method: Hollow stem auger	Borehole Diameter: 2 inches
Driller: Shore Drilling, Inc.	Sampling Method: Split-spoon
Boring Completion Date: March 1, 2000	Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				.5'-3.5 Sand and gravel.
-2-				
-3-				
	SB-4A			3.5'-5.5' Ash fill.
-4-				
-5-				
				5.5'-8.0' Sand, clay and ash fill, with meadow mat
-6-				at 8.0 feet.
-7-				
	SB-4B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-5

Project Name: Spring Lake Department of Public Works	Owner: Borough of Spring Lake
Project Location: Fifth an Monmouth Avenues	Boring Permit Number:
Tax Map Address: Block 26, Lot 1	Project Number: SPLK-00060
ISRA (ECRA) Case Number: 98-11-12-0857-49	Total Depth: 48.0 feet
Drilling Method: Hollow stem auger	Borehole Diameter: 2 inches
Driller: Shore Drilling, Inc.	Sampling Method: Split-spoon
Boring Completion Date: March 1, 2000	Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				0.5'-8.0' Claen sand with gravel.
-2-				
-3-				
	SB-5A			
-4-				
-5-				
-6-				
-7-				
	SB-5B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: SB-6

Project Name: Spring Lake Department of Public Works	Owner: Borough of Spring Lake
Project Location: Fifth an Monmouth Avenues	Boring Permit Number:
Tax Map Address: Block 26, Lot 1	Project Number: SPLK-00060
ISRA (ECRA) Case Number: 98-11-12-0857-49	Total Depth: 48.0 feet
Drilling Method: Hollow stem auger	Borehole Diameter: 2 inches
Driller: Shore Drilling, Inc.	Sampling Method: Split-spoon
Boring Completion Date: March 1, 2000	Logged by: J. Vanderslice, P.G.

Depth (feet)	Sample Number	PID (units)	Blow Count Recovery (inches)	Lithology/Remarks (Modified Burmister Classification)
-1-				.5'-3.5 Sand and gravel.
-2-				
-3-				
	SB-6A			3.5'-5.5' Ash fill.
-4-				
-5-				
-6-				5.5'-8.0' Sand, clay and ash fill, with meadow mat at 8.0 feet.
-7-				
	SB-6B			
-8-				

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

STL Envirotech
a division of Severn Trent Laboratories, Inc.

STL Envirotech
777 New Durham Road
Edison, NJ 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.stl-inc.com

March 14, 2000

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. X843 - SPLK-00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on March 02, 2000:

Lab No.	Client ID	Analysis Required
186625	SB-1A	Pb
186626	SB-1B	Pb
186627	SB-2A	Pb
186628	SB-2B	Pb
186629	SB-3A	Pb
186630	SB-3B	Pb
186631	SB-4A	Pb
186632	SB-4B	Pb
186633	SB-5A	Pb
186634	SB-5B	Pb
186635	SB-6A	Pb
186636	SB-6B	Pb

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

Client ID: SB-1A
Site: SPLK-00060

Lab Sample No: 186625
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 28.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	369	6.0	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Client ID: SB-1B
Site: SPLK-00060

Lab Sample No: 186626
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 19.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1110	5.3	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Client ID: **SB-2A**
Site: **SPLK-00060**

Lab Sample No: 186627
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 41.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	364	7.3	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Envirotech
a division of Severn Trent Laboratories Inc

Client ID: SB-2B
Site: SPLK-00060

Lab Sample No: 186628
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 60.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	1060	10.7	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Client ID: SB-3A
Site: SPLK-00060

Lab Sample No: 186629
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 30.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	799	6.2	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-3B
Site: SPLK-00060

Lab Sample No: 186630
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 43.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	991	7.6	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Client ID: **SB-4A**
Site: **SPLK-00060**

Lab Sample No: 186631
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 21.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	414	5.4	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Client ID: **SB-4B**
Site: **SPLK-00060**

Lab Sample No: 186632
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 26.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	427	5.8	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Client ID: **SB-5A**
Site: **SPLK-00060**

Lab Sample No: 186633
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 11.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	ND	4.8	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SB-5B**
Site: **SPLK-00060**

Lab Sample No: 186634
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 11.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	ND	4.8	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Client ID: SB-6A
Site: SPLK-00060

Lab Sample No: 186635
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 26.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	330	29.0	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

Client ID: SB-6B
Site: SPLK-00060

Lab Sample No: 186636
Lab Job No: X843

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: SOLID
Level: LOW
% Moisture: 30.3

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	8410	15.4	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc.

STL - Envirotech
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) John Vanderslice	Samplers Name (Printed) John Vanderslice	Site/Project Identification SPLK-00060
Company T&M Associates	P.O. #	State (Location of site): NJ: X NY: Other:
		Regulatory Program: BUST
Address 11 Tindal Road	Analysis Turnaround Time: Standard X	
City Middletown State NJ	Rush Charges Authorized For: 2 Week / 1 Week / Other	
Phone 732-671-6400 Fax 671-7365		

Sample Identification	Date	Time	Matrix	No. of Cont.	40	LAB USE ONLY Sample Numbers
SB-1A	3-1-00	11:20	Soil	1	X	186625
SB-1B	3-1-00	11:30	Soil	1	X	186626
SB-2A	3-1-00	11:50	Soil	1	X	186627
SB-2B	3-1-00	11:55	Soil	1	X	186628
SB-3A	3-1-00	12:10	Soil	1	X	186629
SB-3B	3-1-00	12:15	Soil	1	X	186630
SB-4A	3-1-00	12:35	Soil	1	X	186631
SB-4B	3-1-00	12:40	Soil	1	X	186632
SB-5A	3-1-00	1:00	Soil	1	X	186633
SB-5B	3-1-00	1:10	Soil	1	X	186634
				Soil:	1	
				Water:		

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

LAB USE ONLY Project No: _____ Job No: X843

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John S. Vanderslice	T&M	3-1-00 1110	1)	
2)		3.2.00 1235	2)	STC
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

STL - Envirotech
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): John Vanderslice	Samplers Name (Printed): John Vanderslice	Site/Project Identification: SPLK - 00060
Company: T&M Associates	P.O. #	State (Location of site): NJ: X NY: Other:
		Regulatory Program: BUST
Address: 11 Tindall Road	Analysis Turnaround Time: Standard X	
City: Middletown State: NJ	Rush Charges Authorized For: 2 Week / 1 Week / Other	
Phone: 671-6400 Fax: 671-7365		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: X843

Sample Identification	Date	Time	Matrix	No. of Cont.	PID	Sample Numbers
SB-6A	3-1-00	1:20	Soil	1	X	186635
SB-6B	3-1-00	1:30	Soil	1	X	186636

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil: 1
Water:

Special Instructions

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John S. Vanderslice	T&M	3-2-00 11:10	1)	SR
2)	SR	3-2-00 1235	2)	STC
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: X843

Volatile Organics Analysis:

All data conforms with method requirements _____; or
Analysis was not requested ___/___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ___/___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ___/___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
STL Envirotech Job Number: K843

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 3/14/02

Client ID: SB-1B
Site: SPLK-00060

Lab Sample No: 190944
Lab Job No: Y429

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: LEACHATE
Level: LOW

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Arsenic	ND	5.0	0.12		P
Barium	9.9	100.0	0.013		P
Cadmium	0.008	1.0	0.0060	B	P
Chromium	ND	5.0	0.017		P
Lead	0.83	5.0	0.11		P
Mercury	ND	0.2	0.00010		CV
Selenium	ND	1.0	0.14		P
Silver	ND	5.0	0.017		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc

Client ID: SB-6B
Site: SPLK-00060

Lab Sample No: 190945
Lab Job No: Y429

Date Sampled: 03/01/00
Date Received: 03/02/00

Matrix: LEACHATE
Level: LOW

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

METALS ANALYSIS

Analyte	Analytical Result Units: mg/l	Regulatory Level Units: mg/l	Instrument Detection Limit	Qual	M
Arsenic	0.26	5.0	0.12	B	P
Barium	5.4	100.0	0.013		P
Cadmium	0.03	1.0	0.0060	B	P
Chromium	ND	5.0	0.017		P
Lead	55.3	5.0	0.11		P
Mercury	ND	0.2	0.00010		CV
Selenium	0.23	1.0	0.14	B	P
Silver	ND	5.0	0.017		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of

STL - Envirotech
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 2

Name (for report and invoice) John Vanderslice	Samplers Name (Printed) John Vanderslice	Site/Project Identification SPLK-00060
Company T&M Associates	P.O. #	State (Location of site): NJ: ☒ NY: ☐ Other:
Address 11 Tindal Road	Analysis Turnaround Time: Standard ☒	Regulatory Program: BUST
City Middletown State NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 732-671-6400 Fax 671-7365		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: X843

Sample Identification	Date	Time	Matrix	No. of Cont.	PB	*TCLP Metals										Sample Numbers
														New Job # Y429		
SB-1A	3-1-00	11:20	Soil	1	X											186625
SB-1B	3-1-00	11:30	Soil	1	X	X					New Sample #		190	944		186626
SB-2A	3-1-00	11:50	Soil	1	X											186627
SB-2B	3-1-00	11:55	Soil	1	X											186628
SB-3A	3-1-00	12:10	Soil	1	X											186629
SB-3B	3-1-00	12:15	Soil	1	X											186630
SB-4A	3-1-00	12:35	Soil	1	X											186631
SB-4B	3-1-00	12:40	Soil	1	X											186632
SB-5A	3-1-00	1:00	Soil	1	X											186633
SB-5B	3-1-00	1:10	Soil	1	X											186634
				Soil:	1											
				Water:												

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

Special Instructions: *TCLP Metals added per John Vanderslice 3/20/00 KM 1WEEKTAT Water Metals Filtered (Yes/No)? _____

	Relinquished by	Company	Date / Time	Received by	Company
1)	John S. Vanderslice	T&M	3-1-00 1110		
2)			3-2-00 1235		ST
3)					
4)					

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-822), Connecticut (PH-0200), Rhode Island (132).

STL - Envirotech
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): John Vanderslice
Company: T&M Associates
Address: 11 Tindall Road
City: Middletown S NJ
Phone: 671-6400 Fax: 671-7365

Samplers Name (Printed): John Vanderslice
P.O. #:

Site/Project Identification: SPLK - 00060
State (Location of site): NJ: ☒ NY: ☐ Other:
Regulatory Program: BUST

Analysis Turnaround Time
Standard ☒
Rush Charges Authorized For:
2 Week ☐
1 Week ☐
Other ☐ _____

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: X843

Sample Identification	Date	Time	Matrix	No. of Cont.	PB	TCLP Metals*	Y429	Sample Numbers
SB-6A	3-1-00	1:20	Soil	1	X			186635
SB-6B	3-1-00	1:30	Soil	1	X	X	190945	186636

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil: 1
Water:

Special Instructions: *TCLP Metals added per John Vanderslice, 3/20/00 KM. 1 week TAT. Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John C. Vanderslice	T&M	3-2-00 1110	1)	SL
2)	SL	3-2-00 1238	2)	STL
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

4

NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: Y429

Volatile Organics Analysis:

All data conforms with method requirements _____; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ___/___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ___/___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
STL Envirotech Job Number: 1489

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 4/7/00

DWR-138 M
11/88

New Jersey Department of Environmental Prot on
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42250

Atlas Sheet Coordinates 29 : 33 : 368

OWNER IDENTIFICATION - Owner SPRING LAKE BOROUGH
Address FIFTH & WARREN AVE Zip Code
City SPRING LAKE State NJ

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 1
County MONMOUTH Municipality SPRING LAKE BOR Lot No. 01 Block No. 26
Address FIFTH & MONMOUTH

DATE WELL STARTED 3/1/00
DATE WELL COMPLETED 3/1/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (If applicable) T & M Associates Tele.#

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 14 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed? ☐ Yes ☑ No

Static water level after drilling 4 ft.

Water level was measured using tape

Well was developed for 1 hours at 1 gpm

Method of development MONO PUMP

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid NONE Type of Rig A300

Health and Safety Plan submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/each no.)
Single/Inner Casing	0	2	4	FJT PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used -02)	2	14	4	FJT PVC	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	14	12	#2 Sand	
Grout	0	2	12	Neat Cement Bentonite	lbs. 1/4 lbs.

Grouting Method Pressure Grout
Drilling Method Hollow Stem Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0'-6" - Topsoil
6"-10' - Dark Grey Silt Fill
10'-15' - LT Green Clay

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company GARY PARENT/SHORE DRLG. INC.
Well Driller (Print) Ronald Gast
Driller's Signature
Registration No. 10603 Date 3/1/00

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

STL Envirotech
a division of Severn Trent Laboratories, Inc.

STL Envirotech
777 New Durham Road
Edison, NJ 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.stl-inc.com

April 27, 2000

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. Y853 - SPLK 00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on March 31, 2000:

Lab No.	Client ID	Analysis Required
194422	MW-1	BTEX GC w/MTBE,TBA, Pb
194423	Trip_Blank	BTEX GC w/MTBE,TBA

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

Client ID: MW-1
Site: SPLK 00060

Lab Sample No: 194422
Lab Job No: Y853

Date Sampled: 03/31/00
Date Received: 03/31/00
Date Analyzed: 04/06/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: hpid3544.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Final Volume: 0.0 mL
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/PID
METHOD 602

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
TBA	ND	20
MTBE	7.3	0.24
Benzene	ND	0.25
Toluene	ND	0.27
Ethylbenzene	ND	0.27
Xylene (Total)	ND	0.25

Client ID: MW-1
Site: SPLK 00060

Lab Sample No: 194422
Lab Job No: Y853

Date Sampled: 03/31/00
Date Received: 03/31/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	4.6	0.90	F

M Column - Method Code (See Section 2 of Report)

Envirotech

Client ID: **Trip_Blank**
Site: SPLK 00060

Lab Sample No: **194423**
Lab Job No: Y853

Date Sampled: 03/30/00
Date Received: 03/31/00
Date Analyzed: 04/06/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: hpid3525.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Final Volume: 0.0 mL
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/PID
METHOD 602

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
TBA	ND	20
MTBE	ND	0.24
Benzene	ND	0.25
Toluene	ND	0.27
Ethylbenzene	ND	0.27
Xylene (Total)	ND	0.25

STL - Envirotech
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 1

Name (~~for report~~ and invoice) John Vanderslice	Samplers Name (Printed) Tim Perry	Site/Project Identification SPLK 00060
Company T&M associates	P.O. #	State (Location of site): NJ: ✓ NY: ☐ Other:
Address 11 Timmet Rd.	Analysis Turnaround Time: Standard ✓	Regulatory Program: UST
City Middletown State NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone (732)671-6400 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 4853

Sample Identification	Date	Time	Matrix	No. of Cont.	PCB	BTEX MTBE TPH	Sample Numbers
MW-1	3/31/00	9:30	Aq.	4 3	X	X	194422
Trip Blank	3/30/00		Water	2		x	194423

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water: 2 4 1 2

Special Instructions

Water Metals Filtered (Yes/No)? NO

	Company	Date / Time		Company
Relinquished by 1) Tim Perry	T+M Assoc.	3/31/00 1603	Received by 1)	SL
Relinquished by 2)	Company SL	Date / Time 3.31.00 1750	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (120...), Ne...rk (1...), sylv... 68-5..., Co...ticut (PH-0200), Rhode Island (132).

NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: Y853

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
STL Envirotech Job Number: 1853

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 5/2/00

ATTACHMENT E

ISEE DATA REVIEW CHECKLIST SUPPLEMENT

Case Name Spring Lake NPL

Case Number 98-11-12-0857-4Q

Laboratory Name(s) Envirotech

RP Submitting Data Keough & Spring Lake

Date of Document 12/7/00

Document Reviewed QA/QC Envirotech for BTEX + PL

QA/QC review complete - YES or NO

Once the QA review is complete, attach the analytical results summary sheets, the signed Laboratory Deliverables Checklist and Non-Conformance Summary, and a list of the field and/or laboratory sample identification numbers to this form and discard the QA/QC data. Include these items on the releasable side of the case file. The ISEE Data Review Checklist or the ISEE Summary Data Review Checklist and the technical support group comments shall remain on the confidential side of the file.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years.

Signature/Date 1/2/00

STL Envirotech
a division of Severn Trent Laboratories, Inc.

STL Envirotech
777 New Durham Road
Edison, NJ 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.stl-inc.com

April 27, 2000

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. Y853 - SPLK 00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on March 31, 2000:

Lab No.	Client ID	Analysis Required
194422	MW-1	BTEX GC w/MTBE,TBA, Pb
194423	Trip_Blank	BTEX GC w/MTBE,TBA

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

Non-conformance Summary, Page 2 of 2
STL Envirotech Job Number: 1853

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested ____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 5/24/00

NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: X853

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Envirotech

Client ID: MW-1
Site: SPLK 00060

Lab Sample No: 194422
Lab Job No: Y853

Date Sampled: 03/31/00
Date Received: 03/31/00
Date Analyzed: 04/06/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: hpid3544.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Final Volume: 0.0 mL
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/PID
METHOD 602

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
TBA	ND	20
MTBE	7.3	0.24
Benzene	ND	0.25
Toluene	ND	0.27
Ethylbenzene	ND	0.27
Xylene (Total)	ND	0.25

Client ID: MW-1
Site: SPLK 00060

Lab Sample No: 194422
Lab Job No: Y853

Date Sampled: 03/31/00
Date Received: 03/31/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	4.6	0.90	F

M Column - Method Code (See Section 2 of Report)

Client ID: **Trip_Blank**
Site: SPLK 00060

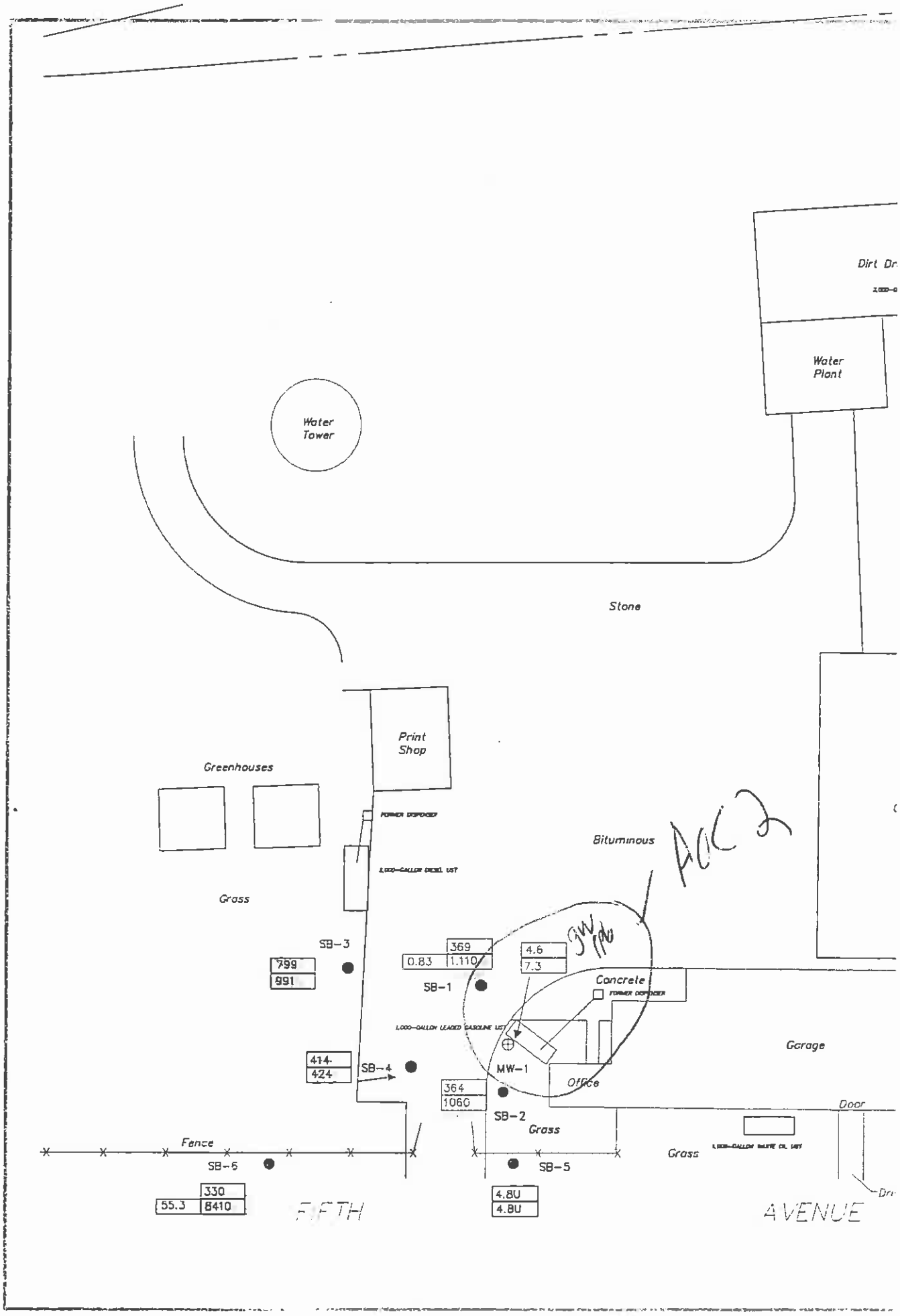
Lab Sample No: **194423**
Lab Job No: Y853

Date Sampled: 03/30/00
Date Received: 03/31/00
Date Analyzed: 04/06/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: hpid3525.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Final Volume: 0.0 mL
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/PID
METHOD 602

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
TBA	ND	20
MTBE	ND	0.24
Benzene	ND	0.25
Toluene	ND	0.27
Ethylbenzene	ND	0.27
Xylene (Total)	ND	0.25


Dirt Dr
Water Plant
Water Tower
Stone
Print Shop
Greenhouses
Bituminous
AC ?
Grass
SB-3
799
991
369
0.83
1,110
SB-1
4.6
7.3
Concrete
Garage
414
424
SB-4
MW-1
364
1060
Office
SB-2
Door
Grass
Fence
SB-6
SB-5
330
55.3
8410
4.8U
4.8U
FIFTH
AVENUE

- lead in ppm

ATTACHMENT E

ISEE DATA REVIEW CHECKLIST SUPPLEMENT

Case Name Spring Lake NPW

Case Number 95-11-12-0457-49

Laboratory Name(s) Envirotech

RP Submitting Data Roche Spring Lake

Date of Document 11/96

Document Reviewed QA/QC for VOA soil only (not gas tank for BTEX

QA/QC review complete - YES or NO

Once the QA review is complete, attach the analytical results summary sheets, the signed Laboratory Deliverables Checklist and Non-Conformance Summary, and a list of the field and/or laboratory sample identification numbers to this form and discard the QA/QC data. Include these items on the releasable side of the case file. The ISEE Data Review Checklist or the ISEE Summary Data Review Checklist and the technical support group comments shall remain on the confidential side of the file.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years.

7/28/00

Signature/Date

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

October 1, 1998

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. H088 - SPLK-00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 08, 1998:

Lab No.	Client ID	Analysis Required
82660	WO-1	PHC
82661	WO-2	Priority Pollutants +40 w, PHC
82662	WO-3	PHC
82663	G1-1	PP VOA+15, Pb
82664	G1-2	PP VOA+15, Pb
82665	G1-3	PP VOA+15, Pb
82666	G1-4	PP VOA+15, Pb
82667	Trip_Blank	PP VOA+15

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

RECEIVED
OCT - 7 1998
T & M ASSOCIATES

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: 4088

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Page 1 of 1

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: 4094

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 12/1/94

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4078.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	680
Bromomethane	ND	680
Vinyl Chloride	ND	680
Chloroethane	ND	680
Methylene Chloride	ND	410
Trichlorofluoromethane	ND	680
1,1-Dichloroethene	ND	270
1,1-Dichloroethane	ND	680
trans-1,2-Dichloroethene	ND	680
cis-1,2-Dichloroethene	ND	680
Chloroform	ND	680
1,2-Dichloroethane	ND	270
1,1,1-Trichloroethane	ND	680
Carbon Tetrachloride	ND	270
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	680
Trichloroethene	ND	140
Dibromochloromethane	ND	680
1,1,2-Trichloroethane	ND	410
Benzene	ND	140
trans-1,3-Dichloropropene	ND	680
2-Chloroethyl Vinyl Ether	ND	680
Bromoform	ND	540
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	140 J	680
Chlorobenzene	ND	680
Ethylbenzene	78 J	540
Xylene (Total)	340 J	680

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4078.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.94	1400	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
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18.				
19.				
20.				
21.				
22.				
23.				
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25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	1400

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	431	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-2
Site: SPLK-00060

Lab Sample No: 82664
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4077.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	700
Bromomethane	ND	700
Vinyl Chloride	ND	700
Chloroethane	ND	700
Methylene Chloride	ND	420
Trichlorofluoromethane	ND	700
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	700
trans-1,2-Dichloroethene	ND	700
cis-1,2-Dichloroethene	ND	700
Chloroform	ND	700
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	700
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	700
Trichloroethene	ND	140
Dibromochloromethane	ND	700
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	700
2-Chloroethyl Vinyl Ether	ND	700
Bromoform	ND	560
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	700
Chlorobenzene	ND	700
Ethylbenzene	ND	560
Xylene (Total)	ND	700

Client ID: G1-2
Site: SPLK-00060

Lab Sample No: 82664
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4077.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 14.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.93	760	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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16.				
17.				
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25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION: 760

Client ID: G1-2
Site: SPLK-00060

Lab Sample No: 82664
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 14.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	80.3	3.9		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4076.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	710
Bromomethane	ND	710
Vinyl Chloride	ND	710
Chloroethane	ND	710
Methylene Chloride	ND	420
Trichlorofluoromethane	ND	710
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	710
trans-1,2-Dichloroethene	ND	710
cis-1,2-Dichloroethene	ND	710
Chloroform	ND	710
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	710
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	710
Trichloroethene	ND	140
Dibromochloromethane	ND	710
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	710
2-Chloroethyl Vinyl Ether	ND	710
Bromoform	ND	560
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	710
Chlorobenzene	ND	710
Ethylbenzene	ND	560
Xylene (Total)	ND	710

ENVIROTECH RESEARCH, INC.

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4076.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION: 0.0

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.5

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	274	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4075.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	650
Bromomethane	ND	650
Vinyl Chloride	ND	650
Chloroethane	ND	650
Methylene Chloride	ND	390
Trichlorofluoromethane	ND	650
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	650
trans-1,2-Dichloroethene	ND	650
cis-1,2-Dichloroethene	ND	650
Chloroform	ND	650
1,2-Dichloroethane	ND	260
1,1,1-Trichloroethane	ND	650
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	650
Trichloroethene	ND	130
Dibromochloromethane	ND	650
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	650
2-Chloroethyl Vinyl Ether	ND	650
Bromoform	ND	520
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	650
Chlorobenzene	ND	650
Ethylbenzene	ND	520
Xylene (Total)	ND	650

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4075.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.93	1600	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	1600

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	258	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

State of New Jersey
Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr
Commissioner

Bureau of Underground Storage Tanks
P.O. Box 433
401 East State Street
Trenton, N.J. 08625-0433
www.state.nj.us/dep/srp

Thomas J. Byrne III, Mayor
Borough of Spring Lake
Fifth and Warren Avenues
Spring Lake, NJ 07762

NOV 30 1999

Re: Electronic Data Submission
Borough of Spring Lake DPW
Case# 98-11-12-0857-49
Submittal Date: 11/10/99

Dear Mr. Byrne:

The Department of Environmental Protection (Department) has reviewed your recent electronic data submittal, required in accordance with N.J.A.C. 7:26E-3.13(c)3v. The submittal can not be processed at this time because the data do not comply with the submittal requirements as outlined in the Site Remediation Program's Electronic Data Interchange (EDI) Manual. The original diskette(s) is being returned with this letter so that the Borough of Spring Lake (Spring Lake) may correct the data and resubmit to the Department.

Electronic Data Submittal Application (EDSA) is a program that the Department has created to check the electronic data for compliance with the requirements of the EDI Manual.

The submitted data were checked using the EDSA program, and the resulting error reports (samerror.txt and/or reserror.txt) have been copied on to the diskette, along with a portion of the EDI Manual, to assist you in correcting the errors. The error reports list all records that do not meet the requirements of the EDI Manual.

The electronic data shall be corrected and resubmitted to the Department within 30 days of receipt of this letter.

It is recommended that Spring Lake use the EDSA routine on the revised data prior to submittal. The Department has recently updated the EDSA program, and it is available for download either from the SRP Web site at http://www.state.nj.us/dep/srp/regs/hazsite/edsa.htm, or from the DEP Bulletin Board System at (609) 292-2006. It is also available on diskette; call (609) 292-9418 to obtain a copy. An electronic version of the SRP section of the EDI manual is available either from the Department's Web site at http://www.state.nj.us/dep/srp/dl/srpedi.doc, or from the DEP Bulletin Board System at (609) 292-2006. A hard copy of the manual also can be obtained by calling (609) 633-1380.

If you should have any questions concerning this subject, please contact me at (609) 633-1472.

Sincerely,

Bob Steinhagen, Case Manager
Bureau of Underground Storage Tanks

Diskette(s) enclosed

c: John Vanderslice
T&M Associates

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Bureau of Underground Storage Tanks
P.O. Box 433
401 East State Street
Trenton, NJ 08625
Fax (609)633-1454

DEC 0 6 1999

Thomas J. Byrne III, Mayor
Borough of Spring Lake
Fifth and Warren Avenues
Spring Lake, NJ 07762

Re: Borough of Spring Lake DPW
Fifth and Monmouth Avenues
Spring Lake Monmouth County
Case# 98-11-12-0857-49
UST# 0097365
Remedial Investigation Addendum Report Dated: September 1999

Dear Mr. Byrne:

The New Jersey Department of Environmental Protection (Department) reviews Remedial Investigations (RI) and Remedial Action (RA) reports at the site for compliance with the Underground Storage of Hazardous Substances Act, N.J.S.A 58:10A-21 et seq. (UST Law) and the "Technical Requirements for Site Remediation," N.J.A.C. 7:26E (Technical Regulations). The Department has recently undertaken such a review for the above referenced site. This correspondence contains a summary of the latest site conditions and work completed to date as included in the report referenced above and details remaining remedial requirements to ensure compliance with the UST Law and the Technical Regulations. Compliance with these requirements should allow the site to proceed to the completion of corrective action and eventual case closure.

Based upon a review of the remedial investigation completed to date, the following requirements shall be addressed as listed in Sections I, II and III below. The results of these remedial requirements shall be submitted as part of a Remedial Action Workplan (RAW) within **ninety (90) days** of the date of this letter. The March 1995 "Guide for the Submission of Remedial Action Workplans" provides the detailed information required for a complete RAW submittal.

I. Remedial Investigation

A. Soil

In September of 1998, the Borough of Spring Lake (Spring Lake) removed seven underground storage tanks at the above referenced site. The tanks removed consisted of the following: one 1,000 gallon waste oil tank, one 1,000 gallon leaded gasoline tank, one 1,000 gallon and one 2,000 gallon diesel tanks, one 750 gallon and one 2,000 fuel oil tanks and one 1,000 gallon unleaded gasoline tank. A total of 28 post-excavation soil samples were collected from all excavations. Analytical parameters for each tank excavation were consistent with those required by the Technical Requirements for Site Remediation (N.J.A.C. 7:26E) for the product store in each tank. The only contamination detected exceeding any Department standards was at the former leaded gasoline tank. Lead exceeded the Residential Direct Contact Soil Cleanup Criteria (RDCSCC) in two samples with concentrations of 431 parts per million (ppm) and 571 ppm. Total xylenes exceeded the Impact to Ground Water Soil Cleanup Criteria with a concentration of 90 ppm. In June of 1999, 5 cubic yards of impacted soil were removed from the former excavation associated with the pump island of the 1,000 gallon leaded gasoline tank. This area corresponds to the location of the post-excavation soil sample exhibiting a lead concentration of 571 ppm. A total of three post-excavation samples were collected from the excavated area and analyzed for benzene, toluene, ethylbenzene, total

xylenes and lead. No contamination was detected exceeding any Department soil cleanup criteria. In addition, three soil samples were collected from each of two borings to delineate lead contamination at the post-excavation sample where lead was detected at a concentration of 431 ppm. Sample analysis for lead indicated the presence of lead exceeding the RDCSCC in one sample with a concentration of 499 ppm.

Spring Lake has requested no further action be required for soil citing that lead concentrations referenced above do not exceed the Non-Residential Direct Contact Soil Cleanup Criteria. In addition, Spring Lake contends that the presence of lead is most likely the result of historic fill used at the site.

Be advised that contamination exceeding the RDCSCC cannot be left in place without the filing of a Declaration of Environmental Restriction (DER). In addition, the referenced contamination must be fully delineated.

If Spring Lake wishes to document the presence of historic fill present at the site, pursuant to N.J.A.C. 7:26E-4.6(b), the remedial investigation of historic fill material shall identify the location of the fill and characterize the fill material, including a determination of the presence of any contaminated non-historic fill material and any free and/or residual product. Please consult the above referenced citation for further details. Be advised that once the fill area has been characterized, all areas where contamination exceeds the RDCSCC would require, at a minimum, a DER.

As an alternative, Spring Lake may delineate the horizontal and vertical extent of contamination exceeding the RDCSCC that has not be excavated proximate to the former leaded gasoline tank. Based upon additional sampling, Spring Lake shall propose further delineation (as needed), remediation or the establishment of a DER.

B. Ground Water

In July of 1999, one temporary monitoring point was installed proximate to the former leaded gasoline tank and subsequently analyzed for volatile organic compounds and lead. Analytical results indicated the presence of lead exceeding the Ground Water Quality Standards with a concentration of 47.7 part per billion.

Spring Lake has requested no further action be required for ground water stating that the lead detected in the sample is believed to be a result of suspended solids from sediments present in the subject sample.

Although lead concentrations may be the result of suspended solids, additional sampling is required to confirm this contention. Spring Lake is required to install a monitoring well in this location to better evaluate ground water conditions. Following installation, Spring Lake shall sample the well benzene, toluene, ethylbenzene, total xylenes, methyl tertiary butyl ether, tertiary butyl alcohol and for <u>total</u> lead using EPA Method 200.7 (ICAP) or EPA Method 239.2 (Graphite Furnace). The SW-846 equivalent for this procedure is ICAP 3010/6010, sample prep 3050/6010 or Graphite Furnace 3020/7421, sample prep 3050/2421.

It is recommended that Spring Lake employ low flow purge techniques to isolate dissolved concentrations if lead.

Be advised that based upon sampling results, additional remedial investigation may be required.

C. Receptor Evaluation

No Receptor evaluation is required at this time.

D. Ecological Evaluation

No ecological evaluation is required at this time.

II. Quality Assurance

A. All data submitted shall conform to N.J.A.C. 7:26E-2, except where specifically indicated.

B. In accordance with N.J.A.C. 7:26E-3.13(b) 3, a technical overview is required for any report submission. As part of that overview, a discussion regarding the reliability of the laboratory analytical data shall be included. Please refer to Appendix 2 of the March 1995 "Guide for the Submission of Remedial Action Workplans."

C. In accordance with N.J.A.C. 7:26E-3.13(c)3v, a table summarizing all sampling results shall be provided with the report required herein. The table shall be organized by area of concern and shall include sample location, media, sample depth, field and laboratory identification numbers, analytical results, and comparison to applicable remediation standards. The data in the summary table shall be presented both as hard copy and an electronic deliverable using the database format outlined in detail in the current HAZSITE application or appropriate spreadsheet format specified in the Department's Electronic Data Interchange Handbook in effect as of the date the report is prepared. The Electronic Data Interchange Handbook and a copy of the current HAZSITE application software may be obtained from the Department by calling (609)633-1476.

III. Administrative Requirements

A. Certification Requirements

Effective April 25, 1992, all persons and firms performing tank services on regulated USTs must be certified per N.J.S.A. 58:10A-24.1-8. All work related to any regulated tank service shall be conducted by, or under the immediate on site supervision of an individual certified in the activity being conducted. All documents (tank closure and permit applications, reports, proposals) submitted to the Department shall be prepared and signed by the certified individual responsible for the project.

B. Field Activity Notification

Spring Lake shall notify the assigned BUST Case Manager at least 14 calendar days prior to implementation of field activities. If Spring Lake fails to initiate sampling within 30 calendar days of the receipt of this letter, any requests for an extension of the required time frames may be denied.

C. Billing

Effective February 22, 1994, the Department initiated direct billing for the oversight of remedial investigations and remedial actions at regulated UST sites. Documents submitted in accordance with N.J.A.C. 7:26E may help reduce the time necessary for oversight of the above referenced site.

D. Remedial Action Selection

Spring Lake shall submit a Remedial Action Selection Report in accordance with N.J.A.C. 7:26E-5. This submission may be included as a part of the RAW. Please note that the Remedial Action Selection Report will satisfy the requirement to submit an Effectiveness Analysis and Certification.

E. Notifications

Pursuant to N.J.A.C. 7:26E-1.4, Spring Lake shall notify the municipal clerk of each municipality in which the site is located forty-five calendar days prior to the submission of the remedial action selection report to the Department. The notification shall be in writing and shall include all information specified in N.J.A.C. 7:26E-1.4(d)1 through 10.

It should be noted that if Spring Lake completes the above requirements, and the data indicate that the remedial investigation has not been completed (i.e., contamination not completely delineated), Spring Lake shall submit a Remedial Investigation Workplan (RIW) in accordance with N.J.A.C. 7:26E-4.2 within the specified time frame. The RIW shall include a schedule of implementation of the remaining remedial investigation required and the submittal date of the RAW. Spring Lake also has the option of completing the remaining remedial investigation in accordance with N.J.A.C. 7:26E-4, followed by the submission of the RIR/RAW. If the latter option is selected, Spring Lake shall notify the Case Manager listed below, in writing, within two weeks prior to the specified time

frame referenced above. This notification shall include a generic discussion of activities conducted to date and activities to be conducted, as well as a detailed schedule of implementation, which includes the submission of the RIR/RAW.

Please note, pursuant to N.J.S.A. 58:10A-21 et seq. and N.J.A.C. 7:14B et seq., the owner and operator of the regulated underground storage tanks are strictly liable for compliance with these requirements. In addition, all state regulated USTs, except for heating oil USTs for on-site consumption, are regulated under 40 CFR Part 280. Non-compliance with these federal and state regulations exposes the tank owner and operator to the penalty and liability specified in 40 CFR Part 280, N.J.S.A. 58:10A-21 et seq. and N.J.A.C. 7:14B et seq.

If you require copies of Departmental Guidance Documents or applications, many of these documents are available on the internet at WWW.STATE.NJ.US/DEP/SRP. If you should have any questions regarding this matter, please contact Bob Steinhagen, Case Manager, of the Bureau of Underground Storage Tanks at (609) 633-1472.

Sincerely,

Bill Patterson, Supervisor
Bureau of Underground Storage Tanks

c: Lester Jargowsky, Health Officer
Monmouth County Health Department
John Vanderslice
T&M Associates

ATTACHMENT E

ISEE DATA REVIEW CHECKLIST SUPPLEMENT

Case Name Spring Lake DPW

Case Number 98-11-12-0857-49

Laboratory Name(s) Enviratech

RP Submitting Data Borough of Spring Lake

Date of Document 12/98

Document Reviewed VOC for 10 samples + 2 QA 2K closed + 2K field blank

QA/QC review complete - (YES) or NO

Once the QA review is complete, attach the analytical results summary sheets, the signed Laboratory Deliverables Checklist and Non-Conformance Summary, and a list of the field and/or laboratory sample identification numbers to this form and discard the QA/QC data. Include these items on the releasable side of the case file. The ISEE Data Review Checklist or the ISEE Summary Data Review Checklist and the technical support group comments shall remain on the confidential side of the file.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years.

Peter SP 12/1/99

Signature/Date

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

2K dup & 2K F.O.

September 28, 1998

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. H118 - SPLK-00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 09, 1998:

Lab No.	Client ID	Analysis Required
82805	D1-1	PHC
82806	D1-2	PHC
82807	D1-3	PHC
82808	D1-4	PHC
82809	D1-5	PHC
82810	FO-1	PHC
82811	FO-2	PHC
82812	FO-3	PHC
82813	FO-4	PHC
82814	FO-5	PHC

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

OCT - 1 1998

Michael J. Urban
Laboratory Manager

ENVIROTECH RESEARCH, INC.

Site: SPLK-00060

Lab Job No: H118

Date Sampled: 9/9/98
Date Received: 9/9/98
Matrix: SOIL

Date Extracted: 9/10/98
Date Analyzed: 9/11/98
QA Batch: 4582

TOTAL PETROLEUM HYDROCARBONS (418.1)

Envirotech Sample #	Client ID	% Moisture	Dilution Factor	Analytical Result mg/kg (Dry Wt.)
82805	D1-1	13.3	1.0	161
82806	D1-2	13.0	1.0	150
82807	D1-3	15.3	1.0	37.9
82808	D1-4	15.7	1.0	33.2
82809	D1-5	7.2	1.0	297
82810	FO-1	5.6	1.0	50.5
82811	FO-2	3.8	1.0	31.5
82812	FO-3	14.4	1.0	74.3
82813	FO-4	5.8	1.0	72.1
82814	FO-5	9.6	1.0	82.7

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 25.0 mg/kg for an undiluted sample.

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: 4118

Volatile Organics Analysis:

All data conforms with method requirements _____; or
Analysis was not requested ___✓___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ___✓___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ___✓___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: H118

Metals Analysis:

All data conforms with method requirements _____; or
Analysis was not requested ___✓___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ___✓___; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ___✓___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 9/28/98

ATTACHMENT E

ISEE DATA REVIEW CHECKLIST SUPPLEMENT

Case Name Spring Lake DPW

Case Number 98-11-12-0857-49

Laboratory Name(s) Envirotech

RP Submitting Data Borough of Spring Lake

Date of Document 12/98

Document Reviewed Data for 3 Soil Samples & NJA WQ test

QA/QC review complete - (YES) or NO

Once the QA review is complete, attach the analytical results summary sheets, the signed Laboratory Deliverables Checklist and Non-Conformance Summary, and a list of the field and/or laboratory sample identification numbers to this form and discard the QA/QC data. Include these items on the releasable side of the case file. The ISEE Data Review Checklist or the ISEE Summary Data Review Checklist and the technical support group comments shall remain on the confidential side of the file.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years.

RA Stat 12/1/99

Signature/Date

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

WO # [illegible] 995

October 1, 1998

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. H088 - SPLK-00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 08, 1998:

Lab No.	Client ID	Analysis Required
82660	WO-1	PHC
82661	WO-2	Priority Pollutants +40 w, PHC
82662	WO-3	PHC
82663	G1-1	PP VOA+15, Pb
82664	G1-2	PP VOA+15, Pb
82665	G1-3	PP VOA+15, Pb
82666	G1-4	PP VOA+15, Pb
82667	Trip_Blank	PP VOA+15

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

RECEIVED
OCT - 7 1998
T & M ASSOCIATES

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: 4088

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: H094

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 12/1/94

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4079.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	120
Dibromochloromethane	ND	630
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	630
2-Chloroethyl Vinyl Ether	ND	630
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	160 J	630
Chlorobenzene	ND	630
Ethylbenzene	ND	500
Xylene (Total)	ND	630

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4079.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

ENVIROTECH RE. .ARCH, -

Lab Sample No: 82602
Lab Job No: H088

Client ID: WO-2
Site: SPLK-00060

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/16/98
Date Analyzed: 09/28/98
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r5787.d

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	390
2-Chlorophenol	ND	390
2-Nitrophenol	ND	390
2,4-Dimethylphenol	ND	390
2,4-Dichlorophenol	ND	390
4-Chloro-3-methylphenol	ND	390
2,4,6-Trichlorophenol	ND	1600
2,4-Dinitrophenol	ND	1600
4-Nitrophenol	ND	1600
4,6-Dinitro-2-methylphenol	ND	1600
Pentachlorophenol	ND	1600

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/16/98
Date Analyzed: 09/28/98
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r5787.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	390
bis(2-Chloroethyl)ether	ND	39
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
bis(2-chloroisopropyl)ether	ND	390
N-Nitroso-di-n-propylamine	ND	39
Hexachloroethane	ND	39
Nitrobenzene	ND	39
Isophorone	ND	390
bis(2-Chloroethoxy)methane	ND	390
1,2,4-Trichlorobenzene	ND	39
Naphthalene	9.5J	390
Hexachlorobutadiene	ND	79
Hexachlorocyclopentadiene	ND	390
2-Chloronaphthalene	ND	390
Dimethylphthalate	ND	390
Acenaphthylene	15 J	390
2,6-Dinitrotoluene	ND	79
Acenaphthene	22 J	390
2,4-Dinitrotoluene	ND	79
Diethylphthalate	ND	390
4-Chlorophenyl-phenylether	ND	390
Fluorene	38 J	390
N-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	39
Phenanthrene	300 J	390
Anthracene	58 J	390
Di-n-butylphthalate	ND	390
Fluoranthene	390 J	390
Pyrene	360 J	390
Benzidine	ND	1600
Butylbenzylphthalate	ND	390

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/16/98
Date Analyzed: 09/28/98
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r5787.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	790
Benzo(a)anthracene	170	39
Chrysene	210 J	390
bis(2-Ethylhexyl)phthalate	ND	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	220	39
Benzo(k)fluoranthene	100	39
Benzo(a)pyrene	170	39
Indeno(1,2,3-cd)pyrene	120	39
Dibenz(a,h)anthracene	35 J	39
Benzo(g,h,i)perylene	110 J	390

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/16/98
Date Analyzed: 09/28/98
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r5787.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown	24.42	340	
2. Unknown	25.64	540	
3. Unknown	26.74	760	
4. C20H12 PAH	26.91	370	
5. Unknown Alkane	27.27	870	
6. Unknown	27.31	900	
7. Unknown	28.87	570	
8. Unknown Alkane	29.59	970	
9. Unknown	32.00	510	
10. Unknown Alkane	33.01	740	
11. Unknown	33.87	530	
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		7100	

Client ID: WO-2
Site: SPLK-00060

Lab Sample ID: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/17/98
Date Analyzed: 09/18/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf003530.d
Rear File ID: nr003530.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 15

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.9	R
alpha-BHC	ND	7.9	R
beta-BHC	ND	7.9	R
delta-BHC	ND	7.9	R
gamma-BHC (Lindane)	ND	7.9	R
Chlordane	ND	79	R
4,4'-DDD	ND	7.9	R
4,4'-DDE	ND	7.9	R
4,4'-DDT	ND	7.9	R
Dieldrin	ND	7.9	R
Endosulfan I	ND	7.9	R
Endosulfan II	ND	7.9	R
Endosulfan sulfate	ND	7.9	R
Endrin	ND	7.9	R
Endrin aldehyde	ND	7.9	R
Heptachlor	ND	7.9	R
Heptachlor epoxide	ND	7.9	R
Toxaphene	ND	79	R

Client ID: WO-2
Site: SPLK-00060

Lab Sample ID: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/17/98
Date Analyzed: 09/19/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of004358.d
Rear File ID: or004358.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 15

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	79	R
Aroclor-1221	ND	79	R
Aroclor-1232	ND	79	R
Aroclor-1242	ND	79	R
Aroclor-1248	ND	79	R
Aroclor-1254	ND	79	R
Aroclor-1260	ND	79	R
Aroclor-1262	ND	79	R
Aroclor-1268	ND	79	R

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 15.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Antimony	ND	1.0	N*	P
Arsenic	1.0	0.66	B*	P
Beryllium	0.06	0.047	B	P
Cadmium	ND	0.094		P
Chromium	4.4	0.26		P
Copper	5.2	0.68	B	P
Lead	25.2	0.47	*	P
Mercury	0.02	0.020	B	CV
Nickel	1.1	0.50	BN*	P
Selenium	ND	0.99		P
Silver	ND	0.33		P
Thallium	ND	1.1		P
Zinc	34.9	0.92	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Site: SPLK-00060

Lab Job No: H088

Date Sampled: 9/8/98
Date Received: 9/8/98
Matrix: SOIL

Date Extracted: 9/9/98
Date Analyzed: 9/10/98
QA Batch: 4570

TOTAL PETROLEUM HYDROCARBONS (418.1)

Envirotech Sample #	Client ID	% Moisture	Dilution Factor	Analytical Result mg/kg (Dry Wt.)
82660	WO-1	14.0	1.0	33.4
82661	WO-2	15.2	1.0	47.6
82662	WO-3	13.2	1.0	30.6

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 25.0 mg/kg for an undiluted sample.

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4078.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	680
Bromomethane	ND	680
Vinyl Chloride	ND	680
Chloroethane	ND	680
Methylene Chloride	ND	410
Trichlorofluoromethane	ND	680
1,1-Dichloroethene	ND	270
1,1-Dichloroethane	ND	680
trans-1,2-Dichloroethene	ND	680
cis-1,2-Dichloroethene	ND	680
Chloroform	ND	680
1,2-Dichloroethane	ND	270
1,1,1-Trichloroethane	ND	680
Carbon Tetrachloride	ND	270
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	680
Trichloroethene	ND	140
Dibromochloromethane	ND	680
1,1,2-Trichloroethane	ND	410
Benzene	ND	140
trans-1,3-Dichloropropene	ND	680
2-Chloroethyl Vinyl Ether	ND	680
Bromoform	ND	540
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	140 J	680
Chlorobenzene	ND	680
Ethylbenzene	78 J	540
Xylene (Total)	340 J	680

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4078.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.94	1400	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	1400

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	431	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-2
Site: SPLK-00060

Lab Sample No: 82664
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4077.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	700
Bromomethane	ND	700
Vinyl Chloride	ND	700
Chloroethane	ND	700
Methylene Chloride	ND	420
Trichlorofluoromethane	ND	700
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	700
trans-1,2-Dichloroethene	ND	700
cis-1,2-Dichloroethene	ND	700
Chloroform	ND	700
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	700
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	700
Trichloroethene	ND	140
Dibromochloromethane	ND	700
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	700
2-Chloroethyl Vinyl Ether	ND	700
Bromoform	ND	560
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	700
Chlorobenzene	ND	700
Ethylbenzene	ND	560
Xylene (Total)	ND	700

Client ID: G1-2
Site: SPLK-00060

Lab Sample No: 82664
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4077.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 14.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.93	760	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 760

Client ID: G1-2
Site: SPLK-00060

Lab Sample No: 82664
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 14.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	80.3	3.9		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4076.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	710
Bromomethane	ND	710
Vinyl Chloride	ND	710
Chloroethane	ND	710
Methylene Chloride	ND	420
Trichlorofluoromethane	ND	710
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	710
trans-1,2-Dichloroethene	ND	710
cis-1,2-Dichloroethene	ND	710
Chloroform	ND	710
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	710
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	710
Trichloroethene	ND	140
Dibromochloromethane	ND	710
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	710
2-Chloroethyl Vinyl Ether	ND	710
Bromoform	ND	560
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	710
Chlorobenzene	ND	710
Ethylbenzene	ND	560
Xylene (Total)	ND	710

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4076.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.5

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	274	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4075.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	650
Bromomethane	ND	650
Vinyl Chloride	ND	650
Chloroethane	ND	650
Methylene Chloride	ND	390
Trichlorofluoromethane	ND	650
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	650
trans-1,2-Dichloroethene	ND	650
cis-1,2-Dichloroethene	ND	650
Chloroform	ND	650
1,2-Dichloroethane	ND	260
1,1,1-Trichloroethane	ND	650
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	650
Trichloroethene	ND	130
Dibromochloromethane	ND	650
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	650
2-Chloroethyl Vinyl Ether	ND	650
Bromoform	ND	520
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	650
Chlorobenzene	ND	650
Ethylbenzene	ND	520
Xylene (Total)	ND	650

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4075 d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.93	1600	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	1600

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	258	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: Trip Blank
Site: SPLK-00060

Lab Sample No: 82667
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4074.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620

Client ID: Trip Blank
Site: SPLK-00060

Lab Sample No: 82667
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4074.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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16.				
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27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

ATTACHMENT E

ISEE DATA REVIEW CHECKLIST SUPPLEMENT

Case Name Spring Lake DPW

Case Number 98-11-12-0857-49

Laboratory Name(s) Enviratech

RP Submitting Data Borough of Spring Lake

Date of Document 12/98

Document Reviewed QA/QC & CFA 1K diesel, 1K gas, 750 gal fuel oil

QA/QC review complete – (YES) or NO

Once the QA review is complete, attach the analytical results summary sheets, the signed Laboratory Deliverables Checklist and Non-Conformance Summary, and a list of the field and/or laboratory sample identification numbers to this form and discard the QA/QC data. Include these items on the releasable side of the case file. The ISEE Data Review Checklist or the ISEE Summary Data Review Checklist and the technical support group comments shall remain on the confidential side of the file.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years.

[signature] 12/1/99

Signature/Date

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

1K diesel, 1K gas @ 750 F.C

October 5, 1998

RECEIVED
OCT 12

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. H210 - SPLK-00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 11, 1998:

Lab No.	Client ID	Analysis Required
83553	D2-1	PHC
83554	D2-2	PHC
83555	D2-3	PHC
83556	D2-4	PHC
83557	G2-1	PP VOA+10, Pb
83558	G2-2	PP VOA+10, Pb
83559	G2-3	PP VOA+10, Pb
83560	G2-4	PP VOA+10, Pb
83561	Trip_Blank	PP VOA+10
83562	F02-1	PHC
83563	F02-2	PHC
83564	G1-5	PP VOA+10, Pb

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

ENVIROTECH RESEARCH, INC.

Client ID: G2-1
Site: SPLK-00060

Lab Sample No: 83557
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID. VOAMS4.i
Lab File ID: d7365.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 6

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	700
Bromomethane	ND	700
Vinyl Chloride	ND	700
Chloroethane	ND	700
Methylene Chloride	ND	420
Trichlorofluoromethane	ND	700
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	700
trans-1,2-Dichloroethene	ND	700
cis-1,2-Dichloroethene	ND	700
Chloroform	ND	700
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	700
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	700
Trichloroethene	ND	140
Dibromochloromethane	ND	700
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	700
2-Chloroethyl Vinyl Ether	ND	700
Bromoform	ND	560
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	220 J	700
Chlorobenzene	ND	700
Ethylbenzene	ND	560
Xylene (Total)	340 J	700

ENVIROTECH RESEARCH, INC.

Client ID: G2-1
Site: SPLK-00060

Lab Sample No: 83557
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7365.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 6.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

ENVIROTECH RESEARCH, INC.

Client ID: G2-1
Site: SPLK-00060

Lab Sample No: 83557
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 6.5

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	21.0	3.6	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: G2-2
Site: SPLK-00060

Lab Sample No: 83558
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7366.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	370
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	370
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	490
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	120 J	620
Chlorobenzene	ND	620
Ethylbenzene	ND	490
Xylene (Total)	99 J	620

ENVIROTECH RESEARCH, INC.

Client ID: G2-2
Site: SPLK-00060

Lab Sample No: 83558
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7366.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: G2-2
Site: SPLK-00060

Lab Sample No: 83558
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 7.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	23.4	3.6	*	p

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: G2-3
Site: SPLK-00060

Lab Sample No: 83559
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7367.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	660
Bromomethane	ND	660
Vinyl Chloride	ND	660
Chloroethane	ND	660
Methylene Chloride	ND	400
Trichlorofluoromethane	ND	660
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	660
trans-1,2-Dichloroethene	ND	660
cis-1,2-Dichloroethene	ND	660
Chloroform	ND	660
1,2-Dichloroethane	ND	260
1,1,1-Trichloroethane	ND	660
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	660
Trichloroethene	ND	130
Dibromochloromethane	ND	660
1,1,2-Trichloroethane	ND	400
Benzene	ND	130
trans-1,3-Dichloropropene	ND	660
2-Chloroethyl Vinyl Ether	ND	660
Bromoform	ND	530
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	120 J	660
Chlorobenzene	ND	660
Ethylbenzene	ND	530
Xylene (Total)	130 J	660

ENVIROTECH RESEARCH, INC.

Client ID: G2-3
Site: SPLK-00060

Lab Sample No: 83559
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7367.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: G2-3
Site: SPLK-00060

Lab Sample No: 83559
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 7.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	18.6	3.6	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G2-4
Site: SPLK-00060

Lab Sample No: 83560
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7368.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	750
Bromomethane	ND	750
Vinyl Chloride	ND	750
Chloroethane	ND	750
Methylene Chloride	ND	450
Trichlorofluoromethane	ND	750
1,1-Dichloroethene	ND	300
1,1-Dichloroethane	ND	750
trans-1,2-Dichloroethene	ND	750
cis-1,2-Dichloroethene	ND	750
Chloroform	ND	750
1,2-Dichloroethane	ND	300
1,1,1-Trichloroethane	ND	750
Carbon Tetrachloride	ND	300
Bromodichloromethane	ND	150
1,2-Dichloropropane	ND	150
cis-1,3-Dichloropropene	ND	750
Trichloroethene	ND	150
Dibromochloromethane	ND	750
1,1,2-Trichloroethane	ND	450
Benzene	180	150
trans-1,3-Dichloropropene	ND	750
2-Chloroethyl Vinyl Ether	ND	750
Bromoform	ND	600
Tetrachloroethene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
Toluene	1900	750
Chlorobenzene	ND	750
Ethylbenzene	610	600
Xylene (Total)	3300	750

ENVIROTECH RESEARCH, INC.

Client ID: G2-4
Site: SPLK-00060

Lab Sample No: 83560
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7368.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Ethylmethylbenzene isomer	15.03	2300	
2.	Trimethylbenzene isomer	15.52	1300	
3.	Coeluting Aromatics	16.21	1000	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	4600

ENVIROTECH RESEARCH, INC.

Client ID: G2-4
Site: SPLK-00060

Lab Sample No: 83560
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 8.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	95.3	3.7	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **Trip_Blank**
Site: SPLK-00060

Lab Sample No: **83561**
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7369.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620

ENVIROTECH RESEARCH, INC.

Client ID: **Trip Blank**
Site: SPLK-00060

Lab Sample No: **83561**
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7369.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

ENVIROTECH RESEARCH, INC.

Site: SPLK-00060

Lab Job No: H210

Date Sampled: 9/10/98-9/11/98
Date Received: 9/11/98
Matrix: SOIL

Date Extracted: 9/15/98
Date Analyzed: 9/15/98
QA Batch: 4588

TOTAL PETROLEUM HYDROCARBONS (418.1)

Envirotech Sample #	Client ID	% Moisture	Dilution Factor	Analytical Result mg/kg (Dry Wt.)
83553	D2-1	6.9	1.0	38.9
83554	D2-2	7.4	1.0	84.1
83555	D2-3	7.3	1.0	43.1
83556	D2-4	7.1	1.0	37.8
83562	F02-1	12.1	1.0	28.9
83563	F02-2	10.7	1.0	50.1

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 25.0 mg/kg for an undiluted sample.

Client ID: G1-5
Site: SPLK-00060

Lab Sample No: 83564
Lab Job No: H210

Date Sampled: 09/11/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7370.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 500.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6800
Bromomethane	ND	6800
Vinyl Chloride	ND	6800
Chloroethane	ND	6800
Methylene Chloride	ND	4100
Trichlorofluoromethane	ND	6800
1,1-Dichloroethene	ND	2700
1,1-Dichloroethane	ND	6800
trans-1,2-Dichloroethene	ND	6800
cis-1,2-Dichloroethene	ND	6800
Chloroform	ND	6800
1,2-Dichloroethane	ND	2700
1,1,1-Trichloroethane	ND	6800
Carbon Tetrachloride	ND	2700
Bromodichloromethane	ND	1400
1,2-Dichloropropane	ND	1400
cis-1,3-Dichloropropene	ND	6800
Trichloroethene	ND	1400
Dibromochloromethane	ND	6800
1,1,2-Trichloroethane	ND	4100
Benzene	ND	1400
trans-1,3-Dichloropropene	ND	6800
2-Chloroethyl Vinyl Ether	ND	6800
Bromoform	ND	5400
Tetrachloroethene	ND	1400
1,1,2,2-Tetrachloroethane	ND	1400
Toluene	ND	6800
Chlorobenzene	ND	6800
Ethylbenzene	4700 J	5400
Xylene (Total)	90000	6800

ENVIROTECH RESEARCH, INC.

Client ID: G1-5
Site: SPLK-00060

Lab Sample No: 83564
Lab Job No: H210

Date Sampled: 09/11/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7370.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 500.0
% Moisture: 7.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Ethylmethylbenzene isomer	15.03	74000	
2.	Coeluting Aromatics	15.10	54000	
3.	Ethylmethylbenzene isomer	15.35	57000	
4.	Trimethylbenzene isomer	15.52	86000	
5.	Ethyldimethylbenzene isomer/alkane	15.77	55000	
6.	Ethyldimethylbenzene isomer/aromatic	16.20	140000	
7.	Ethyldimethylbenzene isomer	16.52	61000	
8.	Ethyldimethylbenzene isomer	16.61	54000	
9.	Ethyldimethylbenzene isomer	17.12	82000	
10.	2,3-dihydro-methyl-1H-Indene isomer	17.65	54000	
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
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26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 717000

Client ID: G1-5
Site: SPLK-00060

Lab Sample No: 83564
Lab Job No: H210

Date Sampled: 09/11/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 7.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	571	3.6	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH INC.
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and Invoice): John Vanderslice	Samplers Name (Printed): Daniel Barrett	Site/Project Identification: SPLK-00060
Company: T+M Associates	P.O. #	State (Location of site): NJ: ☒ NY: ☐ Other:
Address: 11 Tindall Road	Analysis Turnaround Time: Standard ☒	Regulatory Program:
City: Middletown NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 671 6400 Fax:		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: #210

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH	VOA's (modified)	Lead	Sample Numbers
D2-1	9/10/98	10:10	Soil	2	X	C		83553
D2-2		10:37			X	C		83554
D2-3		10:45			X	C		83555
D2-4		10:50			X	C		83556
G2-1		12:15				X	Y	83557
G2-2		12:22				Y	Y	83558
G2-3		12:30				X	Y	83559
G2-4		12:40	Y	Y		X	Y	83560
TripBlank				1		X		83561

Preservation Used: (ICE) 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH Soil:
6 = Other _____, 7 = Other _____ Water:

Special Instructions: C = Contingent analysis, Please submit TPH results to John Vanderslice before running volatiles
Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) Daniel Barrett	T+M Associates	9/11/98 1433	1) [signature]	HOWARD SCHULZE ENVIROTECH RESEARCH INC
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

all contingent [illegible] D [illegible] 9/12 DS

ENVIROTECH RESEARCH INC.
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) John Vandersliee	Samplers Name (Printed) Daniel Barrett	Site/Project Identification SPLK-0006
Company Tom Associates	P.O. #	State (Location of site): NJ: ☒ NY: ☐ Other:
Address 11 Tindall Road	Analysis Turnaround Time: Standard ☒	Regulatory Program:
City Middletown NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 671 6400 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: H210

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH	VOA's (modified)	Lead	Sample Numbers
FO3-1	9/11/98	10:20	Soil	2	X	C		83562
FO2-2	↓	10:31	↓	↓	X	C		83563
~~FO2-3~~	↓	10:45	↓	↓	X	C		No Sample
61-5	9/11/98	13:00	Soil	2		X	X	83564

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other ____, 7 = Other ____
Soil: Water:

Special Instructions C = Contingent analysis, Please submit TPH results before analysing for VOA's. Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) Dan Barrett	Tom Associates	9/11/98 1433	1)	HOWARD SCHULZE ENVIROTECH RESEARCH INC
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: H210

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: H210

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 10/5/98

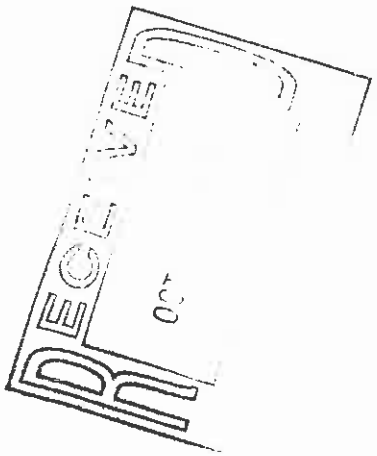
ELEVEN TINDALL ROAD MIDDLETOWN NEW JERSEY 07748-2792
(732) 671-6400 • Fax (732) 671 7365 • www.tamace.com • info@tamace.com

T&M ASSOCIATES

SPLK-00060

October 5, 1999

Linda Fisher
New Jersey Department of Environmental Protection
Bureau of Underground Storage Tanks
P.O. Box 433
401 East State Street
Trenton, NJ 08625-0433



Re: Department of Public Works
Borough of Spring Lake
Remedial Investigation Addendum Report Submittal

Dear Ms. Fisher:

Enclosed is the *Remedial Investigation Addendum Report (RIAR)* for the above referenced site.

The RIAR summarizes activities performed in accordance with your letter dated January 27, 1999. All activities were performed in accordance with NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

We have also enclosed the *Hazsite Electronic Data Submittal* for your review.

If you have any questions, please call.

Very truly yours,

T&M ASSOCIATES

JOHN E. VANDERSLICE, P.G.
PRINCIPAL HYDROGEOLOGIST

JEV:DPB:sec
Enclosures
cc: Thomas J. Byrne III, Mayor
Mary Anne Coogan, Borough Clerk
Wayne Patterson, Councilman
H:\SPLK00060\BUST3.DOC

REMEDIAL INVESTIGATION ADDENDUM REPORT

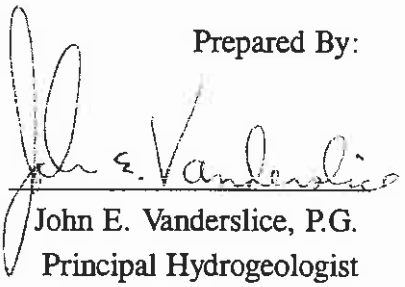
Borough of Spring Lake Department of Public Works
Fifth and Monmouth Avenues
Block 26, Lot 1
Spring Lake, Monmouth County, New Jersey
UST Registration #0097365
NJDEP Case #98-11-12-0857-49

September 1999

Prepared For:

Borough of Spring Lake
Fifth and Warren Avenues
Spring Lake, NJ 07762

Prepared By:



John E. Vanderslice, P.G.
Principal Hydrogeologist
Certification No. 001260

T&M Associates
11 Tindall Road
Middletown, NJ 07748

(12/97) New J ey Department of Environmental P. ction

Site Remediation Program

UST Site/Remedial Investigation Report Certification Form

A. Facility Name : Department of Public Works

Facility Street Address : Fifth and Monmouth Avenues

Municipality: Borough of Spring Lake County : Monmouth

Block: 26 Lot(s): 1 Telephone Number : (732) 449 0800

B. Owner (RP)'s Name: Borough of Spring Lake

Street Address: Fifth and Warren Avenues City : Spring Lake

State: NJ Zip: 07762 Telephone Number : (732) 449 0800

C. (Check as appropriate)

- ☐ Site Investigation Report (SIR) $500 Fee
- ☒ Remedial Investigation Report (RIR) $1000 Fee

D. (Complete all that apply)

- Assigned Case Manager :
- UST Registration Number : 0097365 (7 digits)
- Incident Report Number _-_-_-___-_ (10 or 12 digits)

  ___-___-___-_____-
- Tank Closure Number C(N)9 8-1101 C9_-___ C9__-_____ (7 characters)

E. **Certification by the Subsurface Evaluator:**

The attached report conforms to the specific reporting requirements of N.J.A.C. 7:26E .....**Yes** No

Name: John Vanderslice Signature: UST Cert. No.: 0012601

Firm: T&M Associates Firm's UST Cert. Number: 1300443

Firm Address: 11 Tindall Road City: Middletown

State: NJ Zip: 07748 Telephone Number : (732) 671 6400

(NOTE: Certification numbers required only if work was conducted on USTs regulated per N.J.S.A. 58:10A-21 et seq.)

F. **Certification by the Responsible Party(ies) of the Facility:**

The following certification shall be signed [according to the requirements of N.J.A.C. 7:14B-1.7(b)]as follows:

1. For a Corporation by a person authorized by a resolution of the board of directors to sign the document. A copy of the resolution, certified as a true copy by the secretary of the corporation, shall be submitted along with the certification; or
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, federal or other public agency by either a principal executive officer or ranking elected Official.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate, or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Name (Print or Type): Thomas J. Byrne III Title: Mayor

Signature: Thomas J. Byrne III

Company Name: Borough of Spring Lake Date: 9/23/99

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Section		Page
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2.2	Geology/Hydrogeology	2
2.3	Groundwater	3
3.0	**SOIL INVESTIGATION**	**3**
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3.2	Former 1,000-Gallon Leaded Gasoline Dispenser Location	4
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6.0	**RECOMMENDATION**	**6**

TABLES

1. Area of Concern Soil Sampling Summary
2. Soil Sampling Results-Volatile Organic Compounds
3 Soil Sampling Results-Metals
4. Groundwater Sampling Results

FIGURES

1. Site Location Map
2. Tax Map
3. Site Map
4 Sampling Location Map

APPENDICES

1. Soil Boring Logs
2. Laboratory Analytical Data

1.0 INTRODUCTION

In response to the New Jersey Department of Environmental Protection (NJDEP) letter dated January 27, 1999, T&M Associates was contracted by the Borough of Spring Lake to address the requirements of the above mentioned letter. T&M Associates NJDEP subsurface evaluator (certification #0012601) was on-site June 22, 1999, to observe and document the excavation and removal of soil from beneath the former 1,000-gallon leaded gasoline dispenser and to collect post-excavation samples pursuant to N.J.A.C. 7:26E-6.4. On July 2, 1999, two soil borings were advanced and one groundwater temporary point was installed by Shore Drilling, Inc. (NJ License #J1540), under the supervision of a T&M Associates NJDEP certified Subsurface Evaluator (license #0019674). The site work was conducted at the Borough of Spring Lake Department of Public Works Yard at 5th and Monmouth Avenues, Monmouth County, New Jersey. Figure 1 is an annotated United States Geological Survey (USGS) 7.5-minute series quadrangle map (Asbury Park, NJ) of the area showing the site location, local topography, drainage and cultural features.

Additionally, as requested in the NJDEP letter dated January 27, 1999, the former 2,000 and 750-gallon fuel oil UST's were registered and closed with the NJDEP by the submission of a UST Facility Certification Questionnaire.

Results from this investigation are presented in accordance with the reporting and recordkeeping requirements stated in the Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

2.0 PHYSICAL SITE SETTING

2.1 Site Description

The Department of Public Works property is located between Fifth Avenue to the east, Monmouth Avenue to the north, Wreck Pond to the south, and the New York and Long Branch Railroad to the West. The property occupies approximately seven acres and is currently indicated as Tax Lot 1 of Block 26 in the Borough of Spring Lake, Monmouth County, New Jersey. The Site Location Map and Tax Map for the subject property are included as Figures 1 and 2, respectively. According to the USGS the site is approximately 15 feet above mean sea level.

The topography onsite is generally flat with eight existing structures, the locations of which are shown on the site map (Figure 3). The nearest body of water to the site is Wreck Pond located along the southern boundary of the site.

The property is located at approximately 40^0 08' 46.9" north latitude and 74^0 02' 10.3" west longitude. A Site Plan depicting the property boundaries and relevant site features is presented as Figure 3.

2.2 Geology/Hydrogeology

According to *New Jersey Special Report No. 23, Groundwater Resources of Monmouth County*, the site is located within the Atlantic Coastal Plain Physiographic Province of New Jersey. The site is within the outcrop area of the Kirkwood Formation, which consists mostly of sand, typically light-colored, interbedded with and overlying dark-gray or brown clay-silt. The Kirkwood Formation is underlain by the Shark River Formation, and, locally, the Vincentown Formation and Hornertown Sand. The Kirkwood Formation is part of the Kirkwood-Cohansey aquifer system which is predominantly a water-table aquifer in the area of the site. The reported yield of wells tapping this aquifer ranges from 15 to 1,236 gallons per minute.

The underlying formations range in age from lower Miocene and older. The Shark River Formation, being mostly clayey, probably functions as an aquiclude. The Vincentown Formation is considered an aquifer, however it is not often used as such due to limited aerial extent and decreasing thickness towards the southeast. The Hornerstown Sand Formation usually serves as an aquiclude due to it's clayey content.

Site geology in the area of the former 1,000 gallon UST system, to an approximate depth of 8 feet below grade, generally consists of orange to brown fine to medium sandy clay, with some gravel and meadow-mat at approximately 7.5 to 8 feet below grade. There also exists in this area of the site, evidence of past filling activities. The fill is composed of ash, glass, and metal scrap most probably from an incinerator formerly operated and located on the southwestern corner of the site.

2.3 Groundwater

Groundwater was encountered on-site in the location of the former 1,000 gallon leaded gasoline UST system at approximately 6 feet below grade.

3.0 SOIL INVESTIGATION

All soil sampling procedures conducted at the site were in accordance with the *NJDEP Field Sampling Procedures Manual,* dated May 1992 and N.J.A.C. 7:26E, Technical Requirements for Site Remediation. All laboratory analytical services were provided by Envirotech Research, Inc. of Edison, New Jersey (NJDEP Certified Laboratory Identification Number 12543). A soil sampling summary is included as Table 1 and soil sampling analytical results are included as Tables 2 and 3.

3.1 Former 1,000-Gallon Leaded Gasoline UST Location

On July 2, 1999, soil borings GSB1 and GSB2 were advanced in the location of the former 1,000-gallon leaded gasoline UST (Figure 4). Soil boring GSB1 was advanced using a hollow-stem auger and soil boring GSB2 was advanced using a hand auger. Three soil samples (GSB1-2, GSB1-5, GSB1-8, GSB2-2, GSB2-4, and GSB2-8) were collected at each of the borings at different depths to vertically delineate any contamination encountered. Refer to Table 1 and Figure 4 for the locations of the samples. Soil in the borings consisted of orange to brown sand with some silt, clay and fill consisting of ash, glass bottles, metal scraps, etc. Soil boring logs are included in Appendix 1. Samples were collected in this area due to an elevated concentration of lead (431 parts per million) detected in previously collected soil sample G1-1 during the removal of the former UST on September 8, 1998.

On July 2, 1999, six subsurface soil samples (GSB1-2, GSB1-5, GSB1-8, GSB2-2, GSB2-4, and GSB2-8) were collected from within two boreholes located directly adjacent to the former 1,000-gallon leaded gasoline UST excavation. All samples were analyzed for lead. The laboratory analytical results for lead ranged from 38.3 ppm in sample GSB1-8 to 499 ppm in sample GSB1-5. Copies of the laboratory analytical reports are presented in Appendix 2.

3.2 Former 1,000-Gallon Leaded Gasoline Dispenser Location

On June 29, 1999, approximately five cubic yards of soil was removed from the area directly beneath the former location of the 1,000-gallon leaded gasoline dispenser. Limits of soil removal were determined by using a photo-ionization detector (PID) to field screen the walls and floor of the excavation. Three post-excavation soil samples (PE-1, PE-2, and PE-3) were collected. Refer to Table 1 and Figure 4 for the locations of the samples. Soil in this excavation consisted of orange to brown sand with some silt, clay and fill consisting of ash, glass bottles, metal scraps, etc. Samples were collected in this area due to elevated concentrations of lead and total xylenes (571 and 90 parts per million, respectively) detected in previously collected soil sample G1-5 following the removal of the former UST on September 11, 1998.

On June 29, 1999, three post-excavation soil samples (PE-1, PE-2, and PE-3) were collected from beneath the former 1,000-gallon leaded gasoline dispenser. All soil samples collected were analyzed for lead. The laboratory analytical results for lead ranged from 7.4 ppm in sample PE-2 to 346 ppm in sample PE-1. Soil samples PE-1 and PE-2 were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) via USEPA Method 8260B. Soil samples collected for BTEX analysis were preserved with methanol in the field prior to transport to the laboratory. All volatile organic compound (VOC) sampling procedures followed the NJDEP *Methanol Preservation/Extraction of Soil Samples: Policy implementation guidance* dated July 1, 1997. All of the compounds tested either reported not detected at the method detection limit or at concentrations below the most stringent NJDEP Soil Cleanup Criteria. Copies of the laboratory analytical reports are presented in Appendix 2.

4.0 GROUNDWATER INVESTIGATION

4.1 Former 1,000-Gallon Leaded Gasoline UST System

On July 2, 1999, one 2-inch diameter temporary monitoring point, designated GSB1 was installed by Shore Drilling, Inc. (NJ License #J1540), under the supervision of a T&M Associates NJDEP certified Subsurface Evaluator (license

#0019674). The groundwater sample (GWB1) was collected using NJDEP Alternative Ground Water Sampling Techniques Guide (AGWST) 4.00 titled "Ground Water Sampling with the use of a Passively Placed Narrow Diameter Point (3/94)". A sampling location map is included as Figure 4. The groundwater sampling location was selected based on potential source areas, site topography, and anticipated ground water flow direction. The appropriate well screen length was field determined based on statigraphic and hydrogeologic data collected during boring installation. The monitoring point was constructed using 2-inch, Schedule 40, threaded poly-vinyl chloride (PVC) slotted screen (0.020-inch) and solid casing. The monitoring point was completed to eight feet below grade using factory slotted screen and casing. Following development of the monitoring point a groundwater sample was collected using a disposable bottom-fill bailer. The groundwater sample was analyzed for volatile organic compounds, MTBE, and TBA via EPA Method 624+10 and for lead via EPA Method 200.7. All volatile organic compounds analyzed for were reported below the most stringent NJDEP Ground Water Quality Criteria for Class IIA aquifers (GWQCIIA). Lead was detected in sample GWB1 at a concentration of 47.7 parts per billion (ppb) exceeding the NJDEP GWQCIIA for lead of 10 ppb. A summary of the findings is included in Tables 1 through 3. Laboratory analytical results are presented in Appendix 2.

5.0 SUMMARY

Resultant laboratory analytical data indicate that there were no volatile organic compounds or lead detected in the soil at the location of the former 1,000-gallon leaded gasoline dispenser excavation location.

Resultant laboratory analytical data for soil in the area adjacent to the former 1,000-gallon leaded gasoline UST excavation indicate that one sample, GSB1-5, contained concentrations of lead which exceed the Residential Direct Contact Soil Cleanup Criteria (RDCSCC) but which are below the Non-Residential Contact Soil Cleanup Criteria (NRDCSCC). The remaining five soil samples collected in the former UST area are below the most stringent NJDEP Soil Cleanup Criteria (SCC) for lead. Soil sample GSB1-5 was collected in the soil horizon between 2 and 7.5 feet below grade. Soil within this horizon contained ash, glass, and metal debris most likely from past filling of this area with incinerator ash. Soil samples collected both above and below this horizon contained lead concentrations below the most

stringent NJDEP SCC.

Resultant laboratory analytical data for the groundwater sample collected immediately down-gradient from the former 1,000-gallon leaded gasoline UST system indicate that volatile organic compounds were below the NJDEP GWQCIIA, however, lead was detected at a concentration exceeding the NJDEP GWQCIIA. The presence of lead within the groundwater sample could be attributed to mixing of the groundwater as a result of the sampling technique used.

6.0 RECOMMENDATION

It is our recommendation that a letter of "no further action" for the soil and groundwater be issued for the former 1,000-gallon UST and dispenser locations for the following reasons. The post-excavation soil samples collected from beneath the former dispenser reported all concentrations below the most stringent NJDEP SCC. Only soil sample GSB1-5 contained lead at a concentration exceeding the most stringent NJDEP SCC for lead but below the NJDEP NRDCSCC. Lead was also detected in the groundwater within the same soil boring at a concentration slightly exceeding the NJDEP GWQCIIA. The lead in the groundwater is believed to be a result of soil sediments within the groundwater obtained as a result of using a bottom-fill bailer for groundwater sample collection.

These requests are being made keeping in mind the current and intended future use of the site as the borough department of public works yard. Furthermore, lead has a limited ability to dissolve in groundwater and therefore a limited ability to travel within the soil and groundwater. Additionally, the lead concentrations are most likely a result of historic fill within this area. It appears that the site was formerly marsh-land filled in with incinerator ash from approximately 8 feet below grade to approximately 2 feet below grade. A layer of topsoil was likely applied to the surface at the time the DPW was constructed. The lead contamination is believed to be unrelated to the UST.

Table 1. Area of Concern Soil Sampling Summary

Spring Lake Department of Public Works
Spring Lake, Monmouth County, New Jersey

Laboratory ID	Sample ID	AOC	Sampling Date	Depth of Sample (ft.)	PID (ppm)	Sampling Method	Analysis
140933	PE-1	1,000-GALLON LEADED GASOLINE	6/29/99	2	0	Grab	BTEX (GC/MS), Pb
140934	PE-2	1,000-GALLON LEADED GASOLINE	6/29/99	6	0	Grab	BTEX (GC/MS), Pb
140935	PE-3	1,000-GALLON LEADED GASOLINE	6/29/99	6	0	Grab	Pb
140936	TRIPBLANK	NA	6/28/99	NA	NA	NA	BTEX (GC/MS)
141748	GSB1-2	1,000-GALLON LEADED GASOLINE	7/2/99	2	0	Grab	Pb
141749	GSB1-5	1,000-GALLON LEADED GASOLINE	7/2/99	5	0	Grab	Pb
141750	GSB1-8	1,000-GALLON LEADED GASOLINE	7/2/99	8	0	Grab	Pb
141752	GSB2-2	1,000-GALLON LEADED GASOLINE	7/2/99	2	0	Grab	Pb
141753	GSB2-4	1,000-GALLON LEADED GASOLINE	7/2/99	4	27	Grab	Pb
141754	GSB2-8	1,000-GALLON LEADED GASOLINE	7/2/99	8	5	Grab	Pb

NOTES: NA = Not Applicable.
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
Pb = Lead.

TABLE 2
SOIL SAMPLING RESULTS-VOLATILE ORGANIC COMPOUNDS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	PE-1 140933 06/29/99 SOLID 50.0 ug/Kg	PE-2 140934 06/29/99 SOLID 50.0 ug/Kg	PE-3 140935 06/29/99 SOLID	Trip_Blank 140936 06/28/99 SOLID 50.0 ug/Kg
VOLATILE COMPOUNDS (GC/MS)							
Benzene	3,000	13,000	1,000	190 U	140 U	NR	120 U
Toluene	1,000,000	1,000,000	500,000	940 U	680 U	NR	620 U
Ethylbenzene	1,000,000	1,000,000	100,000	750 U	550 U	NR	500 U
Xylene(Total)	410,000	1,000,000	10,000	940 U	680 U	NR	620 U
Total Confident Conc. VOAs (s)				0	0		0
Total Estimated Conc. VOA TICs (s)				0	0		0

Qualifiers

U - The compound was not detected at the indicated concentration

NR - Not analyzed

TABLE 3
SOIL SAMPLING RESULTS-METALS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	PE-1	PE-2	PE-3	GSB1-2	GSB1-5
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	140933	140934	140935	141748	141749
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	06/29/99	06/29/99	06/29/99	07/02/99	07/02/99
Matrix	Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor				NA	NA	NA	NA	NA
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
METALS								
Lead	400	600	NA	346	7.4 B	153	102	455

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	GSB1-8	GSB2-2	GSB2-4	GSB2-8
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	141750	141752	141753	141754
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	07/02/99	07/02/99	07/02/99	07/02/99
Matrix	Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	SOLID	SOLID	SOLID	SOLID
Dilution Factor				NA	NA	NA	NA
Units				mg/kg	mg/kg	mg/kg	mg/kg
METALS							
Lead	400	600	NA	38.3	135	74.0	123

Qualifiers

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit

Concentration exceeds one or more of the soil cleanup criteria

TABLE 4
GROUNDWATER SAMPLING RESULTS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID		New Jersey Higher of	GWB1	Trip_Blank
Lab Sample Number		PQLs and	141751	141755
Sampling Date		Ground Water Quality	07/02/99	07/01/99
Matrix		Criteria (ug/l)	WATER	WATER
Dilution Factor			1.0	1.0
Units			ug/L	ug/L
VOLATILE COMPOUNDS (GC/MS)				
	Chloromethane	30	0.4 U	0.4 U
	Bromomethane	10	0.6 U	0.6 U
	VinylChloride	5	0.5 U	0.5 U
	Chloroethane	NA	0.4 U	0.4 U
	MethyleneChloride	3^	1.0 U	1.0 U
	Trichlorofluoromethane	NA	0.3 U	0.3 U
	1,1-Dichloroethene	2	0.5 U	0.5 U
	1,1-Dichloroethane	50^	0.3 U	0.3 U
	trans-1,2-Dichloroethene	100	0.5 U	0.5 U
	cis-1,2-Dichloroethene	70^	0.4 U	0.4 U
	Chloroform	6	0.4 U	0.4 U
	1,2-Dichloroethane	2	0.3 U	0.3 U
	1,1,1-Trichloroethane	30	0.3 U	0.3 U
	CarbonTetrachloride	2	0.4 U	0.4 U
	Bromodichloromethane	1	0.2 U	0.2 U
	1,2-Dichloropropane	1	0.1 U	0.1 U
(1)	cis-1,3-Dichloropropene	NA	0.3 U	0.3 U
	Trichloroethene	1	0.3 U	0.3 U
	Dibromochloromethane	10	0.3 U	0.3 U
	1,1,2-Trichloroethane	3	0.3 U	0.3 U
	Benzene	1	0.3 U	0.3 U
(1)	trans-1,3-Dichloropropene	NA	0.3 U	0.3 U
	2-ChloroethylVinylEther	NA	0.4 U	0.4 U
	Bromoform	4	0.3 U	0.3 U
	Tetrachloroethene	1	0.1 U	0.1 U
	1,1,2,2-Tetrachloroethane	1^	0.3 U	0.3 U
	Toluene	1,000	0.3 U	0.3 U
	Chlorobenzene	50^	0.2 U	0.2 U
	Ethylbenzene	700	0.2 U	0.2 U
	Xylene(Total)	1,000	0.3 U	0.3 U
	TBA	100	14 U	14 U
	MTBE	70^	43	0.3 U
Total Confident Conc. VOAs (s)			43	0
Total Estimated Conc. VOA TICs (s)			14	0

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene

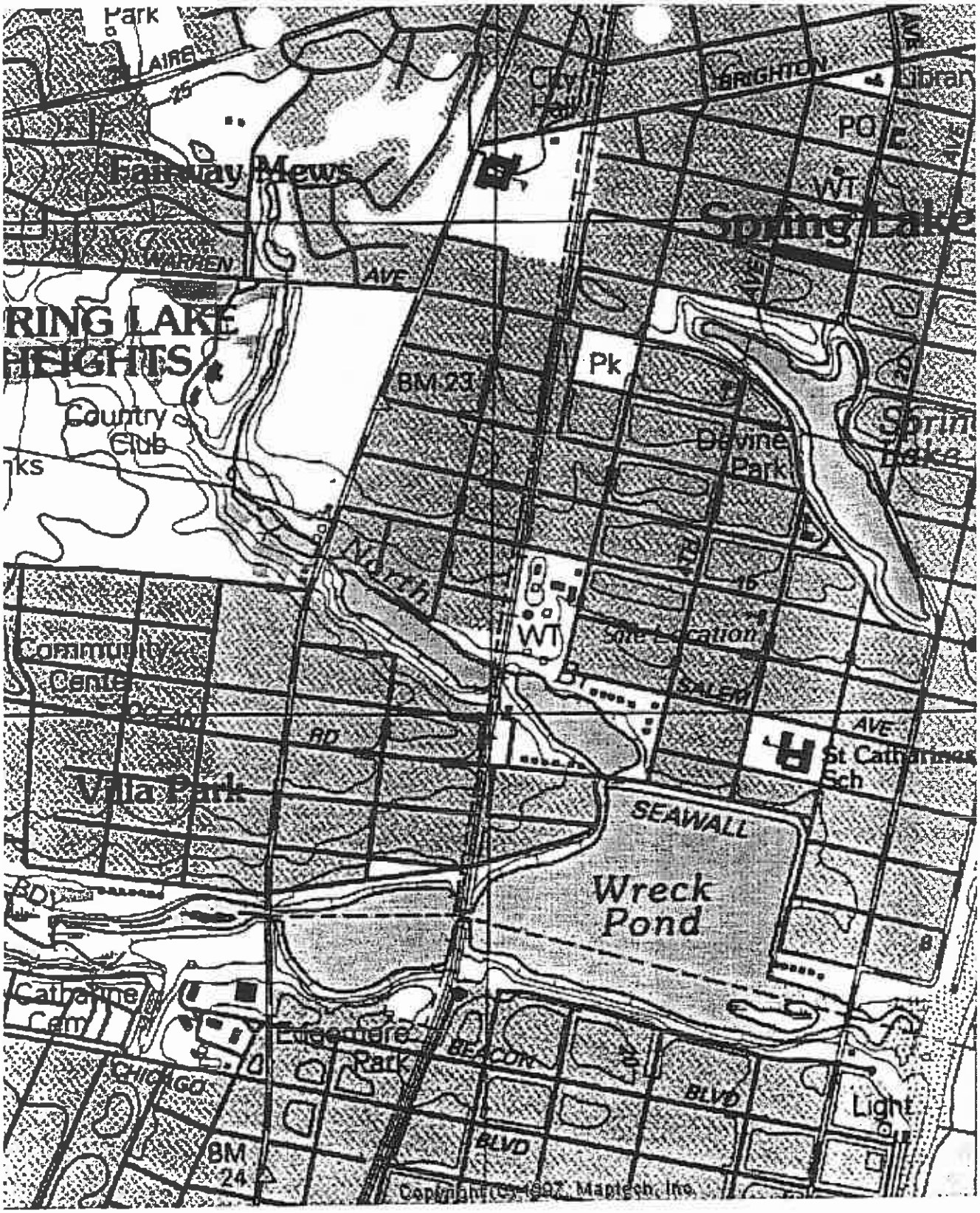
Qualifiers

U - The compound was not detected at the indicated concentration

Sample ID	New Jersey Higher of	GWB1
Lab Sample Number	PQLs and	141751
Sampling Date	Ground Water Quality	07/02/99
Matrix	Criteria (ug/l)	WATER
Dilution Factor		NA
Units		ug/l
METALS		
Lead	10	47.7

Qualifiers

Concentration exceeds one or more of the soil cleanup criteria



BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
5TH AND MONMOUTH AVENUES

REFERENCE
ASBURY PARK, N.J. QUADRANGLE

T&M ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS

SITE LOCATION MAP

FIGURE 1 SCALE 1" = 2,000'

BOROUGH OF SPRING LAKE HEIGHTS

MONMOUTH COUNTY

BOUNDARY LINE

RAIL ROAD

NEW YORK AND LONG BRANCH CLASS 1 (MAIN STEM)

N. J. DEPT. OF TRANS. 5

RAILROAD AVE.

SECOND ST.

PROSPECT AVE.

OCEAN AVE.

CENTRAL AVE.

SHORE ROAD

PUBLIC PROPERTY 2.20 ACRES EXEMPTED

PUBLIC PROPERTY EXEMPTED

FILL

SPRING LAKE WATER WORKS
PUBLIC PROPERTY
EXEMPTED
6.97 ACRES

FIFTH AVE.

FOURTH AVE.

THIRD AVE.

SEA GIRT

WRECK POND

BOROUGH OF MONMOUTH BEACH

BOUNDARY LINE

PUBLIC PROPERTY EXEMPTED

PENNSYLVANIA AVE.

SALEM AVE.

ATLANTIC AVE.

MONMOUTH AVE.

ESSEX AVE.

EPISCOPAL CHURCH EXEMPTED

REVISIONS		
5/8/89	Rev. Prop. Line between Lots 11 & 12, Blk. 27.	T.B.C.
3/27/90	Rev. Prop. Line between Lots 12 & 13, Blk. 11, and Lot Nos. 12 & 13 Rev. to 12.01 & 13.01.	B.E.I.
7/14/93	Lot Nos Revised, From Block 22 Lots 1 & 2 To Block 22 Lots 1.01 & 2.01	B.E.I.

MAY 18 1982

TAX MAP
BOROUGH OF
SPRING LAKE
MONMOUTH COUNTY, N. J.
SCALE 1" = 100' MARCH 9, 1982
THE BIRDSALL CORPORATION
1700 "F" STREET, SOUTH BELMAR, N.J.
WILLIAM T. BIRDSALL P.E.
BOROUGH ENGINEER, Lic. No. 25939
ROBERT L. FARRY L.S.
Lic. No. 13444

TM ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7385

TAX MAP

DESIGNED BY	NA	DRAWN BY	NA	CHECKED BY	NA
PROJECT NO.	SPLK-00060	CADD FILE	NA	FIELD BK. #	NA

DRAWING SPLK-00060
FIGURE 2

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Former Gasoline Dispenser

Former Diesel Dispenser

Dirt Drive & Parking

Former 2,000 Gal. Fuel Oil UST

Former 750 Gal. Fuel Oil UST

UP

Former 1000 Gal. Unleaded Gasoline UST

Former 1000 Gal. Diesel UST

Water Plant

Water Plant

Water Tower

N

W

E

S

Stone

Grass

Print Shop

Greenhouses

Former Dispenser

Former 2,000 Gal. Diesel UST

Grass

Garage

MONMOUTH AVENUE

Concrete

Former Dispenser

Former 1000 Gal. Leaded Gasoline UST

Garage

Office

Door

Door

Fence

Grass

Grass

Former 1000 Gal. Waste Oil UST

Drives

FIFTH AVENUE

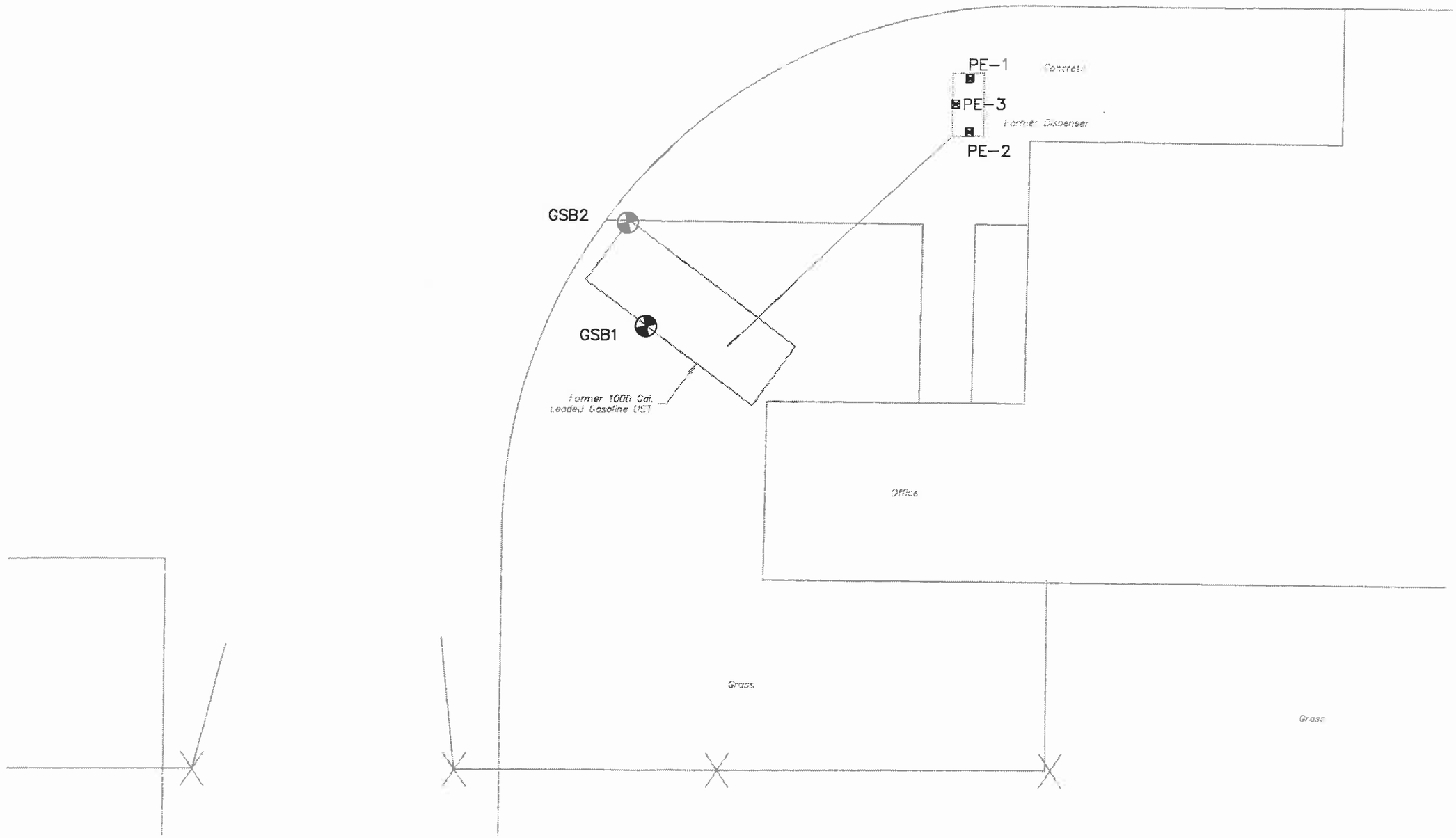
T&M ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

SITE MAP

DRAWING SPLX-00060

FIGURE 3

PROJECT NO. SPLX-00060 | CADD FILE SP60-FG | SCALE NOT TO SCALE



T&M ASSOCIATES 11 TINDALL ROAD MIDDLETOWN, NJ 07748 TEL 732-671-6400 FAX 732-671-7366	SAMPLING LOCATION MAP PROJECT NO. SPLK-00060 · CADD FILE SP60-FG · SCALE NOT TO SCALE	DRAWING SPLK-00060 FIGURE 4

Soil Boring Log: GSB1

Project Name: Spring Lake Department of Public Works
Project Location: Fifth and Monmouth Avenues
Tax Map Address: Block 26, Lot 1
NJDEP Case Number: 98-11-12-0857-49
Drilling Method: Hollow-Stem Auger
Driller: Shore Drilling, Inc. (NJ License #J1540)
Boring Completion Date: July 2, 1999

Owner: Borough of Spring Lake
Boring Permit Number: NA
Project Number: SPLK-00060
Total Depth:8 feet
Borehole Diameter: 2 inches
Sampling Method: Grab
Logged by: D. Barrett

Depth (feet)	Sample Number	PID (ppm)	Blow Count Recovery (inches)		Lithology/Remarks (Modified Burmister Classification)
			NA	0-6"	Topsoil
-1-					
-2-	GSB1-2	0		6"-2'	Brown Sand and Clay
-3-					
-4-					
-5-	GSB1-5	0		2'-5'	Ash with some Coal, Sand and Clay
-6-					groundwater
-7-				5'-7.5'	Orange to Brown Sand and Clay
-8-	GSB1-8	0		7.5'-8'	Meadow Mat
-9-					
-10-					
-11-					
-12-					
-13-					
-14-					
-15-					
-16-					
-17-					
-18-					
-19-					
-20-					

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2.0-inch outer diameter and 1.375-inch inner diameter.

Soil Boring Log: GSB2

Project Name: Spring Lake Department of Public Works
Project Location: Fifth and Monmouth Avenues
Tax Map Address: Block 26, Lot 1
NJDEP Case Number: 98-11-12-0857-49
Drilling Method: Hand Auger
Driller: Shore Drilling, Inc. (NJ License #J1540)
Boring Completion Date. July 2, 1999

Owner. Borough of Spring Lake
Boring Permit Number. NA
Project Number: SPLK-00060
Total Depth 8 feet
Borehole Diameter. 2 inches
Sampling Method: Grab
Logged by: D. Barrett

Depth (feet)	Sample Number	PID (ppm)	Blow Count Recovery (inches)		Lithology/Remarks (Modified Burmister Classification)
			NA	0-6"	Topsoil
-1-					
-2-	GSB2-2	0		6"-2'	Brown Sand and Clay
-3-					
-4-	GSB2-4			2'-4'	Ash with some Coal, Sand and Clay
-5-					
-6-					groundwater
-7-				4'-7.5'	Orange to Brown Sand and Silt with some Ash
-8-	GSB2-8	0		7.5'-8'	Meadow Mat
-9-					
-10-					
-11-					
-12-					
-13-					
-14-					
-15-					
-16-					
-17-					
-18-					
-19-					
-20-					

Note: The numbers in the column labeled "Blow Count" refers to the number of blows required to drive a standard split-spoon sampler a distance of 6.0 inches using a 140-pound drop weight falling 30 inches. A standard split-spoon sampler is 2 0-inch outer diameter and 1 375-inch inner diameter.

STL Envirotech
a division of Severn Trent Laboratories, Inc.

STL Envirotech
777 New Durham Road
Edison, NJ 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.stl-inc.com

July 20, 1999

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. R015 - Spring Lake DPW

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on June 30, 1999:

Lab No.	Client ID	Analysis Required
140933	PE-1	BTEX(GC/MS), Pb
140934	PE-2	BTEX(GC/MS), Pb
140935	PE-3	Pb
140936	Trip_Blank	BTEX(GC/MS)

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

Client ID: PE-1
Site: Spring Lake DPW

Lab Sample No: 140933
Lab Job No: R015

Date Sampled: 06/29/99
Date Received: 06/30/99
Date Analyzed: 07/05/99
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k0079.d

Matrix: SOIL
Level: HIGH
Sample Weight: 8.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 24

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Benzene	ND	190
Toluene	ND	940
Ethylbenzene	ND	750
Xylene (Total)	ND	940

a part of
Severn Trent Services Inc

Envirotech
a division of Severn Trent Laboratories, Inc.

Client ID: PE-1
Site: Spring Lake DPW

Lab Sample No: 140933
Lab Job No: R015

Date Sampled: 06/29/99
Date Received: 06/30/99

Matrix: SOLID
Level: LOW
% Moisture: 23.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	346	5.6		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc

Client ID: PE-2
Site: Spring Lake DPW

Lab Sample No: 140934
Lab Job No: R015

Date Sampled: 06/29/99
Date Received: 06/30/99
Date Analyzed: 07/05/99
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k0080.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Benzene	ND	140
Toluene	ND	680
Ethylbenzene	ND	550
Xylene (Total)	ND	680

a part of
Severn Trent Services Inc

Envirotech
a division of Severn Trent Laboratories, Inc.

Client ID: PE-2
Site: Spring Lake DPW

Lab Sample No: 140934
Lab Job No: R015

Date Sampled: 06/29/99
Date Received: 06/30/99

Matrix: SOLID
Level: LOW
% Moisture: 6.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	7.4	4.6	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc

Client ID: **Trip_Blank**
Site: Spring Lake DPW

Lab Sample No: 140936
Lab Job No: R015

Date Sampled: 06/28/99
Date Received: 06/30/99
Date Analyzed: 07/05/99
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k0081.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Benzene	ND	120
Toluene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620

a part of
Severn Trent Services Inc

Client ID: **PE-3**
Site: **Spring Lake DPW**

Lab Sample No: 140935
Lab Job No: R015

Date Sampled: 06/29/99
Date Received: 06/30/99

Matrix: SOLID
Level: LOW
% Moisture: 44.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	153	7.8		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc

STL - Envirotech
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 1

Name (for report and invoice) John Vanderslice	Samplers Name (Printed) John Vanderslice	Site/Project Identification Spruce Lake DPW
Company TEM Associates	P.O. # 15077	State (Location of site): NJ: ☒ NY: ☐ Other:
Address 11 Tindall Road	Analysis Turnaround Time: Standard ☐	Regulatory Program: RCRA
City Middle State	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone (732) 671-6400 Fax (732) 671-2345		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	TCLP Volatiles	TCLP Metals									LAB USE ONLY Sample Numbers
PE-1	6-29-99	8:30	Soil	2	X	X									140933
PE-2	6-29-99	8:40	Soil	2	X	X									140934
PE-3	6-29-99	8:45	Soil	1		X									140935
TRIP BLANK	6/28/99		H2O	1											140936

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other Methanol, 7 = Other _____

Soil: 1,6 | Water:

Special Instructions

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Vanderslice	TEM Associates	6-30-99 1135	1)	STL
2)	STL-ENVIROTECH JASON PALUCH	6-30-99 1315	2)	STL-ENVIROTECH ROBERT PRITCHARD
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: R015

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
STL Envirotech Job Number: 2015

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested ____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 7/31/99

Envirotech
a division of Severn Trent Laboratories, Inc.

Client ID: **GSB1-2**
Site: **SPLK-DPW**

Lab Sample No: 141748
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99

Matrix: SOLID
Level: LOW
% Moisture: 10.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	102	4.8		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

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Envirotech
a division of Severn Trent Laboratories, Inc.

Client ID: GSB1-5
Site: SPLK-DPW

Lab Sample No: 141749
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99

Matrix: SOLID
Level: LOW
% Moisture: 32.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	499	6.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **GSB1-8**
Site: **SPLK-DPW**

Lab Sample No: 141750
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99

Matrix: SOLID
Level: LOW
% Moisture: 13.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	38.3	4.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

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Severn Trent Services Inc

Client ID: GWB1
Site: SPLK-DPW

Lab Sample No: 141751
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99
Date Analyzed: 07/10/99
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v4658.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.4
Bromomethane	ND	0.6
Vinyl Chloride	ND	0.5
Chloroethane	ND	0.4
Methylene Chloride	ND	1.0
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.5
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.4
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.1
cis-1,3-Dichloropropene	ND	0.3
Trichloroethene	ND	0.3
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.3
Tetrachloroethene	ND	0.1
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.3
TBA	ND	14
MTBE	43	0.3

a part of
Severn Trent Services Inc

Client ID: **GWB1**
Site: SPLK-DPW

Lab Sample No: **141751**
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99
Date Analyzed: 07/10/99
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v4658.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	Cyclohexane	9.36	5.6	
2.	C7H12 Hydrocarbon	9.92	8.0	
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	14

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Severn Trent Services Inc

Client ID: **GWB1**
Site: **SPLK-DPW**

Lab Sample No: 141751
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Lead	47.7	0.60	F

M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc

Envirotech
a division of Severn Trent Laboratories, Inc.

Client ID: **GSB2-2**
Site: **SPLK-DPW**

Lab Sample No: 141752
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99

Matrix: SOLID
Level: LOW
% Moisture: 13.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	135	5.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc

Envirotech
a division of Severn Trent Laboratories, Inc

Client ID: GSB2-4
Site: SPLK-DPW

Lab Sample No: 141753
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99

Matrix: SOLID
Level: LOW
% Moisture: 20.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	74.0	5.4		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc

Envirotech
a division of Severn Trent Laboratories, Inc.

Client ID: **GSB2-8**
Site: **SPLK-DPW**

Lab Sample No: 141754
Lab Job No: R139

Date Sampled: 07/02/99
Date Received: 07/02/99

Matrix: SOLID
Level: LOW
% Moisture: 15.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	123	5.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

a part of
Severn Trent Services Inc

Envirotech
a division of Severn Trent Laboratories, Inc.

Client ID: Trip_Blank
Site: SPLK-DPW

Lab Sample No: 141755
Lab Job No: R139

Date Sampled: 07/01/99
Date Received: 07/02/99
Date Analyzed: 07/10/99
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v4659.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.4
Bromomethane	ND	0.6
Vinyl Chloride	ND	0.5
Chloroethane	ND	0.4
Methylene Chloride	ND	1.0
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.5
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.4
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.1
cis-1,3-Dichloropropene	ND	0.3
Trichloroethene	ND	0.3
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.3
Tetrachloroethene	ND	0.1
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.3
TBA	ND	14
MTBE	ND	0.3

Envirotech
a division of Severn Trent Laboratories, Inc.

Client ID: **Trip_Blank**
Site: SPLK-DPW

Lab Sample No: **141755**
Lab Job No: R139

Date Sampled: 07/01/99
Date Received: 07/02/99
Date Analyzed: 07/10/99
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v4659.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION: 0.0

a part of
Severn Trent Services Inc

S.E. - Envirotech
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE ___ OF ___

Name (for report and invoice) John Vanderslice	Samplers Name (Printed) Daniel Barrett	Site/Project Identification SPLK - DPW
Company Tom Assoc.	P.O. # 18817	State (Location of site): NJ: ☑ NY: ☐ Other:
Address 11 Tindall Road	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City Middletown State NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 671 6400 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: R139

Sample Identification	Date	Time	Matrix	No. of Cont.	Lead 624+10, XYL MTBE, TBA											Sample Numbers
GSB1-2	7/2/99	9:30	Soil	1	X											141748
GSB1-5		9:35	Soil	1	X											141749
GSB1-8		9:40	Soil	1	X											141750
GWB1		10:20	H2O	4	X	X										141751
GSB2-2		10:15	Soil	1	X											141752
GSB2-4		10:25	Soil	1	X											141753
GSB2-8		10:35	Soil	1	X											141754
Trip Blank	7/1/99	—	H2O	2		X										141755
Preservation Used: (1 = ICE), (2 = HCl), 3 = H_2SO_4, (4 = HNO_3), 5 = NaOH — Soil:					X											
6 = Other ____, 7 = Other ____ — Water:					X	X										

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) David Barrett	Tom Assoc.	7/2/99 1330	1) [illegible]	[illegible]mental
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: R139

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Page 1 of 1

Non-conformance Summary, Page 2 of 2
STL Envirotech Job Number: R139

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: P. Sulf for MICHAEL URBAN Date: 7/28/99

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Bureau of Underground Storage Tanks
P.O. Box 433
401 East State Street
Trenton, NJ 08625
Fax (609) 633-1454

Robert C. Shinn, Jr.
Commissioner

Mr. Thomas J. Byrne III, Mayor
Borough of Spring Lake
Fifth and Warren Avenues
Spring Lake, NJ 07762

JAN 27 1999

Re: Department of Public Works
Fifth and Monmouth Avenues
Spring Lake, Monmouth County
Block 26; Lot 1
Case # 98-11-12-0857
Closure # N98-1101
UST # 0097365

Dear Mr. Byrne:

On November 12, 1998, the New Jersey Department of Environmental Protection (Department) received notification of a discharge of hazardous substances from the underground storage tank (UST) systems at the above referenced facility which are regulated under the Underground Storage of Hazardous Substance Act (N.J.S.A. 58:10A-21 et seq.). The Department received a Remedial Investigation Report (RIR) from the Borough of Spring Lake dated December 11, 1998. The RIR indicates the actions taken in compliance with the Regulations Implementing the Underground Storage of Hazardous Substances Act (N.J.A.C. 7:14B et seq.) and the Technical Requirements for Site Remediation (N.J.A.C. 7:26E et seq.). Based upon a review of the RIR submitted, the following requirements shall be addressed.

I. Remedial Investigation Requirements

A. Soil

Elevated levels of lead and xylene remain in the soil at the location of samples G1-1 and G1-5. These two samples were collected beneath the 1,000 gallon leaded gasoline UST and dispenser. Due to the contamination identified, the Borough of Spring Lake shall either:

a. Remediate the contaminated soils to the most restrictive cleanup criteria and conduct post-remedial sampling pursuant to N.J.A.C. 7:26E-6.4. Post-remedial soil samples shall be analyzed for "BTEX" and lead. Appendix A of the June 1996 "Guidance Document for the Remediation of Contaminated Soils" (see the "Cleanup Criteria" section below) may be referenced when evaluating the post-remedial sampling results; **or**

b. Fully delineate the horizontal and vertical extent of soil contamination in accordance with N.J.A.C. 7:26E-4. Please note that it may be necessary to collect soil samples in the saturated zone if the ground water elevation has increased since the previous samples were collected. Based upon the results of delineation sampling, the Borough of Spring Lake shall submit a proposal for either further remedial action or an alternative residential/nonresidential use soil remediation standard. Please be advised that proposals to leave contamination in place above the Direct Contact Cleanup Criteria may require appropriate engineering and/or institutional controls pursuant to N.J.S.A. 58:10B-13 (et seq.). In addition, any proposal to leave contamination in place above the Impact to Ground Water Cleanup Criteria will require a Ground Water Remedial Investigation pursuant to N.J.A.C. 7:26E-4.

B. Ground Water

Due to the presence of soil contamination, which is in contact with the water table, one ground water monitoring well shall be installed at the location of the UST system or within ten feet downgradient of the UST system. Ground water samples shall be collected and analyzed for volatile organic compounds, methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA) using EPA Method 624 calibrated for xylenes, with a library search (VO+10) and for total lead using EPA Method 200.7 (ICAP) or EPA Method 239.2 (Graphite Furnace). The SW-846 equivalent for this procedure is ICAP 3010/6010, sample prep 3050/6010 or Graphite Furnace 3020/7421, sample prep 3050/2421.

C. Receptor Evaluation

If ground water contamination is identified, the Borough of Spring Lake shall conduct a receptor evaluation in accordance with N.J.A.C. 7:26E-4.4(h)3v. through ix. The receptor evaluation shall address any nearby ground water usage, surface water bodies, and subsurface utilities including basements, or other structures that may be impacted from a vapor hazard. The well search shall identify all irrigation, monitoring and domestic wells located within a one-half mile radius of the site (including any such wells located on-site) and all industrial, public supply wells and wells with water allocation permits located within a one mile radius of the site.

the Borough of Spring Lake shall accurately plot the results of the well search on a scaled map (scale shall be greater than or equal to 1:24,000) in relation to the facility. the Borough of Spring Lake shall submit the map, a listing of all wells identified cross referenced to the scaled map, and any specific information available on the wells to the Department. This information shall include: the type of well, the status of the well (active, inactive, properly abandoned pursuant to N.J.A.C. 7:9-9 et. seq.), total depth, casing length, open bore hole or screened interval, copies of well records and or well logs on file with the Department's Bureau of Water Allocation, and any additional records available in county or municipal records. the Borough of Spring Lake shall submit a listing of all sources referenced in performing the well search. If a referenced agency is unable to provide the information requested, written documentation that the source was contacted and that the request for information was either denied or that the information was unavailable shall be provided.

D. Ecological Evaluation

A baseline ecological evaluation shall be completed for each contaminated site or area of concern in accordance with N.J.A.C. 7:26E-3.11. This baseline evaluation shall be qualitative in nature and based on site investigation sample results and a site inspection by a person experienced in the use of techniques and methodologies for conducting ecological risk assessment in accordance with EPA guidance. This evaluation shall be used to determine when further sampling and evaluation is required, pursuant to N.J.A.C. 7:26E-4.7.

E. Electronic Data Submission

The Borough of Spring Lake shall submit all post-excavation soil sample results and all future soil and ground water sample results in electronic format (as well as hard copy). The electronic deliverable shall conform with either the database format outlined in detail in the current HAZSITE application or appropriate spreadsheet format specified in the Department's Electronic Data Interchange Handbook. The Electronic Data Interchange Handbook and a copy of the current HAZSITE application software may be obtained from the Department by calling (609) 633-1476.

II. Administrative Requirements

A. Regulated UST Systems

Pursuant to N.J.A.C. 7:14B-1.4 (et seq.), the 2,000 and 750 gallon fuel oil USTs are regulated tanks since the aggregate capacity is greater than 2,000 gallons. Please refer to the definition of "tank capacity" under N.J.A.C. 7:14B-1.6 for further explanation. Since these USTs are regulated, they shall be registered with the Department by

completing the enclosed UST Facility Certification Questionnaire. Additionally, the Borough of Spring Lake shall provide a narrative of the closure of these USTs. The narrative can be similar to that presented in the December 1998 RIR for the other UST systems. A site map of the tanks and soil samples shall be provided as well.

B. Cleanup Costs

After investigation and remediation of the soil and ground water has been completed, the responsible party is requested to submit an estimate of the total capital costs involved in performing and confirming a cleanup. This estimate shall include the costs associated with the following tasks:

- monitoring systems, equipment and mobilization costs;
- operational and maintenance costs, including all labor, utilities and repairs;
- consulting and labor costs;
- sample costs;
- disposal costs, including transport, waste transfer and facility tipping fees; and
- regulatory review fees.

III. Reporting Requirements

A. Field Activity Notification

The Borough of Spring Lake shall notify the Case Manager referenced below at least 14 calendar days prior to implementation of field activities. If the Borough of Spring Lake fails to initiate sampling within 30 calendar days of the receipt of this letter, any requests for an extension of the required time frames may be denied.

B. Written Report Requirements

An RIR shall be submitted to the Case Manager referenced below in the Bureau of Underground Storage Tanks (BUST) *within 120 days* of the date of this letter. This RIR shall detail the results and conclusions for all activities conducted in compliance with the requirements listed in this letter. To facilitate processing, please send the RIR to the attention of the assigned Case Manager and list the case number and UST registration number referenced above. If contamination is present, a proposal for further delineation and/or remediation shall be submitted. If no further investigation or remediation is required, a proposal for "no further action" shall be submitted.

IV. Financial Assistance

To assist businesses, homeowners and other entities in completing the required investigation and remediation, there is funding available in the form of low interest loans and grants. If financial assistance is needed, please contact your case manager to obtain information and applications for the Hazardous Discharge Site Remediation Fund (HDSRF). The information and applications for the HDSRF may also be retrieved from our web site at www.state.nj.us/dep/srp. After reviewing the information and applications, specific questions regarding the HDSRF may be directed toward Edward Stankiewicz at (609) 633-1487.

V. Technical Requirements

The amended version of the Technical Requirements for Site Remediation, N.J.A.C. 7:26E, appeared in the May 19, 1997, New Jersey Register and are effective July 18, 1997. These rules contain the minimum technical requirements concerning the environmental investigation and remediation at contaminated sites or sites at which contamination is suspected. Work conducted after the effective date of the amended rule is to be in full compliance with the amended rule. However, work conducted pursuant to workplans submitted prior to the effective date of the amended rule may be conducted pursuant to the original rule provided the work is completed within six months of the Department's approval of the workplan.

It should be noted that technical requirements are also included in subchapters 7, 8 and 9 of the regulations implementing the Underground Storage of Hazardous Substances Act, N.J.A.C. 7:14B-1-13 and 15. The

responsible person(s) that are conducting an environmental investigation/remediation should be following the Technical Requirements for Site Remediation to accomplish the investigation. This will allow for consistent evaluation of any discharges and potential impacts.

VI. Cleanup Criteria

The Department's most recent general guidance on soil cleanup criteria can be found in Appendix A of the June 1996 edition of the "Guidance Document for the Remediation of Contaminated Soils." It must be remembered, however, that the actual cleanup goal at a particular site is determined by the Department on a case-by-case basis and may be different than that in the above mentioned guidance document. This variation may be due to many factors, including, site specific human health and environmental exposure pathways, the presence of site contaminants not addressed in the guidance document or site specific physical characteristics. In case specific situations, when the cleanup criteria is modified from one previously established for that specific site, the Department will make every effort to expeditiously notify the responsible party. Please consult the Case Manager listed below to discuss any modifications that may affect your remedial options.

If the person conducting a cleanup does not wish to remediate a contaminated site consistent with the guidance document, they shall submit a proposal to the Case Manager listed below that details the site specific circumstances and technical rationale for the proposed cleanup goals.

Please note that the Ground Water Quality Standards, N.J.A.C. 7:9- 6, have been adopted and appeared in the February 1, 1993, New Jersey Register. This rule adoption may affect the requirements for ground water remediation and soil cleanup (i.e. where the soil may contribute contaminants to the ground water above the applicable standards) for a particular site and should be referenced and discussed with the Case Manager listed below.

VII. Compliance

Please note, pursuant to N.J.S.A. 58:10A-21 et seq. and N.J.A.C. 7:14B et seq., the owner and operator of the regulated underground storage tanks are strictly liable for compliance with these requirements. In addition, all state regulated USTs, except for heating oil USTs for on-site consumption, are regulated under 40 CFR Part 280. Non-compliance with these federal and state regulations exposes the tank owner and operator to the penalty and liability specified in 40 CFR Part 280, N.J.S.A. 58:10A-21 et seq. and N.J.A.C. 7:14B et seq.

If you require copies of Departmental Guidance Documents or applications, many of these documents are available on the internet at WWW.STATE.NJ.US/DEP/SRP. If you should have any questions regarding this matter, please contact Linda Fisher of the Bureau of Underground Storage Tanks at (609) 633-1473.

Sincerely,

Linda Fisher (for)

Gary Sanderson, Supervisor
Bureau of Underground Storage Tanks

enclosures: UST Site/Remedial Investigation Report Certification Form

cc: John Vanderslice, T&M Associates
Monmouth County Health Department
Municipal Clerk, Borough of Spring Lake
Linda Fisher, Bureau of Underground Storage Tanks

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1.0 INTRODUCTION

T&M Associates was contracted by the Borough of Spring Lake to observe and document the excavation and removal of one 1,000-gallon waste oil (E6 previously listed as a 1,500-gallon tank), one 1,000-gallon leaded gasoline (E5), one 1,000-gallon unleaded gasoline (E2), one 2,000-gallon diesel (E4), one 1,000-gallon diesel (E1), and one 2,000-gallon unregulated fuel oil Underground Storage Tank (UST), and all associated piping. In addition, a 750-gallon unregulated fuel oil UST was identified and removed at this time. The UST's were located at the Boroughs Department of Public Works Yard at 5th and Monmouth Avenues, Monmouth County, New Jersey. Figure 1 is an annotated United States Geological Survey (USGS) 7.5-minute series quadrangle map (Asbury Park, NJ) of the area showing the site location, local topography, drainage and cultural features. The contractor, Freehold Cartage Inc., of Freehold, New Jersey, (NJDEP Certification Number 0017888) conducted all tank decommissioning and removal activities.

The 2,000-gallon and 750-gallon number 2 fuel oil UST's were properly closed by removal, pursuant to the Technical Requirement for Site Remediation. Analytical data for the fuel oil tanks is included in Table 2 and in the laboratory analytical reports included in Appendix 6 . Soil samples from the 2,000-gallon fuel oil UST are abbreviated as FO-1 through FO-5. Soil analytical data from the 750-gallon UST are abbreviated as FO2-1 and FO2-2. All samples were below the most stringent NJDEP Soil Cleanup Criteria (SCC).

Pursuant to NJDEP regulations implementing the New Jersey Underground Storage of Hazardous Substances Act, a 30-Day Notice of Intent to Close An Underground Storage Tank System was submitted to the NJDEP for the regulated UST's. The notice was approved and returned by the NJDEP on July 8, 1998. Upon completion of removal activities a NJDEP Underground Storage Tank Facility Questionnaire was completed and submitted to the NJDEP. The NJDEP was notified of a discharge on November 12, 1998 upon receipt of soil analytical data and the site was assigned NJDEP Case #98-11-12-0857-49.

Results from this investigation are presented in accordance with the reporting and recordkeeping requirements stated in the Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

2.0 PHYSICAL SITE SETTING

2.1 Site Description

The Department of Public Works property is located between Fifth Avenue to the east, Monmouth Avenue to the north, Wreck Pond to the south, and the New York and Long Branch Railroad to the West. The property occupies approximately seven acres and is currently indicated as Tax Lot 1 of Block 26 in the Borough of Spring Lake, Monmouth County, New Jersey. The Site Location Map and Tax Map for the subject property are included as Figures 1 and 2, respectively. According to the USGS the site is approximately 15 feet above mean sea level (Figure 1).

The topography onsite is generally flat with eight existing structures, the locations of which are shown on the site map (Figure 3). The nearest body of water to the site is Wreck Pond located along the southern boundary of the site.

Figure 1 is an annotated USGS 7.5 minute quadrangle map (Asbury Park, NJ) showing the site location, local topography, drainage patterns, and other topographic features. The property is located at approximately 40^0 08' 46.9" north latitude and 74^0 02' 10.3" west longitude. A Site Plan depicting the property boundaries and relevant site features is presented as Figure 3.

According to the most recent edition of the *NJDEP's Known Contaminated Sites in New Jersey* (Appendix 1), 9 contaminated sites are under investigation in the Borough of Spring Lake and 4 contaminated sites are under investigation in the Borough of Spring Lake Heights.

2.2 Geology/Hydrogeology

According to *New Jersey Special Report No. 23, Groundwater Resources of Monmouth County*, the site is located within the Atlantic Coastal Plain Physiographic Province of New Jersey. The site is within the outcrop area of the Kirkwood Formation, which consists mostly of sand, typically light-colored, interbedded with and overlying dark-gray or brown clay-silt. The Kirkwood Formation is underlain by the Shark River Formation, and, locally, the Vincentown Formation and Hornertown Sand. The Kirkwood Formation is part of the Kirkwood-Cohansey aquifer system which is predominantly a water-table aquifer in

the area of the site. The reported yield of wells tapping this aquifer ranges from 15 to 1,236 gallons per minute.

The underlying formations range in age from lower Miocene and older. The Shark River Formation, being mostly clayey, probably functions as an aquiclude. The Vincentown Formation is considered an aquifer, however it is not often used as such due to limited aerial extent and decreasing thickness towards the southeast. The Hornerstown Sand Formation usually serves as an aquiclude due to it's clayey content.

Site geology, to an approximate depth of 7 feet below grade, generally consists of light brown fine to medium sand and silt, with some clay and gravel. On-site soil conditions are consistent with the Kirkwood Formation.

2.3 Groundwater

Groundwater was encountered on-site from 6 feet below grade to not being encountered at depths in excess of 7 feet below grade.

3.0 UNDERGROUND STORAGE TANK CLOSURES

All tanks were cleaned prior to removal. Residual liquids and tank bottom sludges were removed from the UST on September 8, 1998 and transported off-site in a Freehold Cartage Inc. vacuum truck. On September 16, 1998, the residual liquids and tank bottoms were disposed of at Cycle Chem, Inc. of Elizabeth, NJ. The residual liquid disposal manifests are included in Appendix 2. All tanks were disposed of at John Blewett Inc. of Howell, NJ. Disposal documentation for the tanks is included in Appendix 3. Clean-fill was obtained from New Jersey Gravel and Sand Co. of Wall, NJ. Clean-fill material tickets for the soil used to backfill the excavations are included in Appendix 4. Photo documentation of the tank removals is included in Appendix 5.

3.1 1,000-Gallon Waste Oil Tank Excavation

Upon inspection, the 1,000-gallon steel UST containing waste oil appeared to be in good condition with no visible signs of tank failure. The tank was cylindrical with dimensions of 11 feet 9 inches in length by 3 feet 9 inches in diameter. This tank

was formerly listed in the NJDEP database as having a capacity of 1,500-gallons.

The approximate dimensions of the 1,000-gallon waste oil UST excavation were six feet wide by fifteen feet long and six feet deep. Soil in the tank excavation consisted of light-brown sand and silt, with some clay and gravel. Groundwater was encountered in the excavation at the bottom two to three inches. There were no signs of contamination in the soil or groundwater within the excavation. Clean-fill and the existing soil were used to backfill the excavation.

Piping from the tank to the building was cut off and capped. The length of pipe from the edge of the tank to the building was approximately one foot in length.

3.2 1,000-Gallon Leaded Gasoline Tank Excavation

Upon inspection, the 1,000-gallon steel UST containing leaded gasoline appeared to be in good condition with no visible signs of tank failure. The tank was cylindrical with dimensions of 10 feet in length by 4 feet in diameter.

The approximate dimensions of the 1,000-gallon leaded gasoline UST excavation were six feet wide by twelve feet long and six feet deep. Soil in the tank excavation consisted of light-brown sand and silt, with some clay and gravel. Groundwater was encountered in the excavation at the bottom two to three inches. There were no signs of contamination in the soil or groundwater within the excavation. Clean-fill and the existing soil were used to backfill the excavation.

The fuel dispenser was removed approximately three years prior to the tank excavation. The dispenser was located seven feet north of the edge of the tank. The fuel piping was located at a depth of approximately 1.5 to 2 feet. Soil in the tank excavation consisted of light-brown sand and silt, with some clay and gravel. The former dispenser location was excavated to a depth of approximately two feet. There were no observable signs of contamination within the excavation.

3.3 2,000-Gallon Diesel Tank Excavation

Upon inspection, the 2,000-gallon steel UST containing diesel appeared to be in good condition with no visible signs of tank failure. The tank was cylindrical with dimensions of 12 feet in length by five feet in diameter.

The approximate dimensions of the 2,000-gallon diesel UST excavation were eight feet wide by 18 feet long and seven feet deep. Soil in the tank excavation consisted of light-brown sand and silt, with some clay and gravel. Groundwater was encountered in the excavation at 6.5 feet. There were no signs of contamination in the soil or groundwater within the excavation. Clean-fill and the existing soil were used to backfill the excavation.

The fuel dispenser was removed approximately three years prior to the tank excavation, however the dispenser pad was removed at this time. The dispenser was located six feet west of the edge of the tank. The fuel piping was removed from a depth of approximately two feet. There were no observable signs of contamination around the piping throughout the excavation.

3.4 1,000-Gallon Diesel Tank Excavation

Upon inspection, the 1,000-gallon steel UST containing diesel appeared to be in good condition with no visible signs of tank failure. The tank was cylindrical with dimensions of 12 feet in length by five feet in diameter.

The approximate dimensions of the 1,000-gallon diesel UST excavation were eight feet wide by seventeen feet long and seven feet deep. Soil in the tank excavation consisted of light-brown sand and silt, with some clay and gravel. Groundwater was not encountered in the excavation. There were no signs of contamination in the soil within the excavation. Clean-fill and the existing soil were used to backfill the excavation.

The fuel dispenser was removed approximately three years prior to the tank excavation, however the dispenser pad was removed at this time. The dispenser was located eight feet west southwest of the edge of the tank. The fuel piping was removed from a depth of approximately two feet. There were no observable signs of contamination around the piping throughout the excavation.

3.5 1,000-Gallon Unleaded Gasoline Tank Excavation

Upon inspection, the 1,000-gallon steel UST containing unleaded gasoline appeared to be in good condition with no visible signs of tank failure. The tank was

cylindrical with dimensions of 10.5 feet in length by four feet in diameter.

The approximate dimensions of the 1,000-gallon unleaded gasoline UST excavation were seven feet wide by 12 feet long and 6.5 feet deep. Soil in the tank excavation consisted of light-brown sand and silt, with some clay and gravel. Groundwater was not encountered in the excavation. There were no signs of contamination in the soil within the excavation. Clean-fill and the existing soil were used to backfill the excavation.

The fuel dispenser was removed approximately three years prior to the tank excavation, however the dispenser pad was removed at this time. The dispenser was located 12 feet west of the edge of the tank. The fuel piping was removed from a depth of approximately two feet. There were no observable signs of contamination around the piping throughout the excavation.

4.0 SOIL SAMPLING AND ANALYTICAL RESULTS

All soil sampling procedures conducted at the site were in accordance with the *NJDEP Field Sampling Procedures Manual,* dated May 1992 and N.J.A.C. 7:26E, Technical Requirements for Site Remediation. All laboratory analytical services were provided by Envirotech Research, Inc. of Edison, New Jersey (NJDEP Certified Laboratory Identification Number 12543). A soil sampling summary is included as Table 1 and soil sampling analytical results are included as Tables 2 through 6.

4.1 1,000-Gallon Waste Oil Tank Analytical Results

On September 8, 1998, three post-excavation soil samples (WO-1, WO-2 and WO-3) were collected from the base of the waste oil UST excavation at a depth of six feet below grade. Piping post-excavation soil samples were not collected because the tank was located approximately one foot from the building foundation to which the pipe was tied into and the piping consisted of a straight run with no joints between the tank and building. All soil samples collected in connection with the waste oil UST were analyzed for total petroleum hydrocarbons (PHC) via U.S. EPA test method 418.1. The laboratory analytical results for PHC ranged from 30.6 parts per million (ppm) in WO-3 to 47.6 ppm in WO-2. As per N.J.A.C. 7:26E-2.1 soil sample WO-2 was also analyzed for Priority Pollutants + 40 (PP+40).

Soil samples collected for VOC analysis were preserved with methanol in the field prior to transport to the laboratory. All VOC sampling procedures followed the NJDEP *Methanol Preservation/Extraction of Soil Samples: Policy implementation guidance* dated July 1, 1997. All of the compounds tested either reported not detected at the method detection limit or had concentrations below the most stringent NJDEP Soil Cleanup Criteria.

Refer to the Sample Locations Map (Figure 4A) for the post-excavation soil sample locations. Copies of the analytical reports are presented in Appendix 6.

4.2 1,000-Gallon Leaded Gasoline Tank Analytical Results

On September 8, 1998, four post-excavation soil samples (G1-1, G1-2, G1-3 and G1-4) were collected from the side-walls of the leaded gasoline UST excavation at a depth just above the water table at approximately six feet below grade (Figure 4B). A post-excavation soil sample (G1-5) for the piping was collected beneath the former gasoline dispenser on September 11, 1998 at a depth of 2 feet below grade. All soil samples collected in connection with the leaded gasoline UST were analyzed for volatile compounds via U.S. EPA test method 8260 and for lead via U.S. EPA test method 6010B. Soil samples collected for VOC analysis were preserved with methanol in the field prior to transport to the laboratory. All VOC sampling procedures followed the NJDEP *Methanol Preservation/Extraction of Soil Samples: Policy implementation guidance* dated July 1, 1997. All of the volatile compounds analyzed for were either reported not detected at the method detection limit or had concentrations below the most stringent NJDEP Soil Cleanup Criteria with the exception of total xylenes in soil sample G1-5 having a concentration of 90 ppm. This concentration exceeds the NJDEP Impact to Ground Water Soil Cleanup Criteria (IGWSCC) of 10 ppm. Samples G1-1 and G1-5 exceeded the NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC) of 400 ppm for lead with concentrations of 431 and 571 ppm, respectively.

Refer to the Sample Locations Map (Figure 4B) for the post-excavation soil sample locations. Copies of the analytical reports are presented in Appendix 6.

4.3 2,000-Gallon Diesel Tank Analytical Results

On September 9, 1998, four post-excavation soil samples (D1-1, D1-2, D1-3 and

D1-4) were collected from the side-walls of the diesel UST excavation at a depth just above the water table at an approximate depth of 6.5 feet below grade (Figure 4C). A post-excavation soil sample (D1-5) for the piping was collected beneath the former diesel dispenser on September 9, 1998 at a depth of two feet below grade. All soil samples collected in connection with the diesel UST were analyzed for total PHC via U.S. EPA test method 418.1. The laboratory analytical results for TPH ranged from 33.2 ppm in D1-4 to 297 ppm in D1-5, which are below the NJDEP guidance concentration of 10,000 ppm. As per N.J.A.C. 7:26E-2.1 contingent volatile analysis of the samples was not required.

Refer to the Sample Locations Map (Figure 4C) for the post-excavation soil sample locations. Copies of the analytical reports are presented in Appendix 6.

4.4 1,000-Gallon Diesel Tank Analytical Results

On September 10, 1998, three post-excavation soil samples (D2-1, D2-2 and D2-3) were obtained from along the centerline of the base of the diesel UST excavation at a depth of between 7 and 7.5 feet below grade (Figure 4D). A post-excavation soil sample (D2-4) for the piping was collected beneath the former diesel dispenser on September 10, 1998 at a depth of two feet below grade. All soil samples collected in connection with the diesel UST were analyzed for total petroleum hydrocarbons (PHC) via U.S. EPA test method 418.1. The laboratory analytical results for PHC ranged from 37.8 ppm in D2-4 to 84.1 ppm in D2-2, which are below the NJDEP guidance concentration of 10,000 ppm. As per N.J.A.C. 7:26E-2.1 contingent volatile analysis of the samples was not required.

Refer to the Sample Locations Map (Figure 4D) for the post-excavation soil sample locations. Copies of the analytical reports are presented in Appendix 6.

4.5 1,000-Gallon Unleaded Gasoline Tank Analytical Results

On September 10, 1998, three post-excavation soil samples (G2-1, G2-2 and G2-3) were obtained from along the centerline of the base of the unleaded gasoline UST excavation at a depth of 6.5 feet below grade (Figure 4E). A post-excavation soil sample (G2-4) for the piping was collected beneath the former unleaded gasoline dispenser on September 10, 1998 at a depth of two feet below grade. All soil samples collected in connection with the unleaded gasoline UST were analyzed for

volatile compounds via U.S. EPA test method 8260. Soil samples collected for VOC analysis were preserved with methanol in the field prior to transport to the laboratory. All VOC sampling procedures followed the NJDEP *Methanol Preservation/Extraction of Soil Samples: Policy implementation guidance* dated July 1, 1997. All of the volatile compounds analyzed for were either reported not detected at the method detection limit or had concentrations below the most stringent NJDEP Soil Cleanup Criteria.

Refer to the Sample Locations Map (Figure 4E) for the post-excavation soil sample locations. Copies of the analytical reports are presented in Appendix 6.

5.0 SUMMARY

Seven Underground Storage Tanks (UST's) were removed from the Borough of Spring Lake Department of Public Works site between September 8, 1998 and September 11, 1998. Five of the seven tanks are regulated tanks through the New Jersey Department of Environmental Protection Bureau of Underground Storage Tanks (BUST) and the remaining two tanks are unregulated heating oil tanks.

Only the leaded gasoline UST had soil analytical data exceeding the NJDEP Soil Cleanup Criteria (SCC) standards. The remaining six UST's were found to have no evidence of contamination associated with them.

6.0 CONCLUSION

Lead concentrations at soil samples G1-1 and G1-5 for the leaded gasoline UST and former dispenser excavations, and total xylenes at soil sample G1-5 for the former leaded gasoline dispenser excavation contained concentrations above the most stringent NJDEP SCC. The concentration for lead at these locations is above the Residential Direct Contact (RDC) SCC of 400 ppm, but below the Non-Residential Direct Contact (NRDC) SCC. The concentration for total xylenes within the former dispenser excavation is above the Impact to Ground Water (IGW) SCC but below the RDC SCC.

In reference to the former leaded gasoline UST area, the Borough of Spring Lake requests "No Further Action" required. This request is being made for the following reasons; the concentration of lead at soil sample G1-1 is just above the

RDCSCC but well below the NRDCSCC and lead concentrations are below the most stringent NJDEP SCC in the other three soil samples collected within the same excavation.

In reference to the former leaded gasoline dispenser area, the Borough of Spring Lake requests "No Further Action" required. This request is being made for the following reasons; the concentration of lead at soil sample G1-5 is below the NRDCSCC, total xylenes concentration is below the RDCSCC, and the surface area above the soil is paved and therefore prevents leaching to the groundwater. In addition, there were no signs (i.e. visible sheen or odors) of contamination in the groundwater and soil within the UST excavation located approximately seven feet hydraulically down-gradient from the former dispenser.

These requests are being made keeping in mind the current and intended future use of the site as the Boroughs' Department of Public Works Yard.

The Borough of Spring Lake also requests "No Further Action" be required at the locations of the remaining four regulated UST's. This request is being made since all soil sampling analytical data at these locations are below the most stringent NJDEP SCC and no signs of contamination were observed during the tank removals.

Table 1. Area of Concern Soil Sampling Summary

Spring Lake Department of Public Works
Spring Lake, Monmouth County, New Jersey

Laboratory ID	Sample ID	AOC	Sampling Date	Depth of Sample (ft.)	PID (ppm)	Sampling Method	Analysis
82660	WO-1	1,000-GALLON WASTE OIL	9/8/98	6	0	Grab	PHC
82661	WO-2	1,000-GALLON WASTE OIL	9/8/98	6	0	Grab	PHC, PP+40
82662	WO-3	1,000-GALLON WASTE OIL	9/8/98	6	0	Grab	PHC
82663	G1-1	1,000-GALLON LEADED GASOLINE	9/8/98	6	0	Grab	PPVOA+15, Pb
82664	G1-2	1,000-GALLON LEADED GASOLINE	9/8/98	6	0	Grab	PPVOA+15, Pb
82665	G1-3	1,000-GALLON LEADED GASOLINE	9/8/98	6	0	Grab	PPVOA+15, Pb
82666	G1-4	1,000-GALLON LEADED GASOLINE	9/8/98	6	0	Grab	PPVOA+15, Pb
82667	TRIPBLANK	NA	9/8/98	NA	NA	NA	PPVOA+15
82805	D1-1	FIRST 2,000-GALLON DIESEL	9/9/98	6.5	0	Grab	PHC
82806	D1-2	FIRST 2,000-GALLON DIESEL	9/9/98	6.5	0	Grab	PHC
82807	D1-3	FIRST 2,000-GALLON DIESEL	9/9/98	6.5	0	Grab	PHC
82808	D1-4	FIRST 2,000-GALLON DIESEL	9/9/98	6.5	0	Grab	PHC
82809	D1-5	FIRST 2,000-GALLON DIESEL	9/9/98	2	0	Grab	PHC
82810	F0-1	2,000-GALLON FUEL OIL*	9/9/98	6.5	0	Grab	PHC
82811	F0-2	2,000-GALLON FUEL OIL*	9/9/98	6.5	0	Grab	PHC
82812	F0-3	2,000-GALLON FUEL OIL*	9/9/98	6.5	1.6	Grab	PHC
82813	F0-4	2,000-GALLON FUEL OIL*	9/9/98	6.5	0	Grab	PHC
82814	F0-5	2,000-GALLON FUEL OIL*	9/9/98	2	0	Grab	PHC
83553	D2-1	SECOND 2,000-GALLON DIESEL	9/10/98	7-7.5	0.3	Grab	PHC
83554	D2-2	SECOND 2,000-GALLON DIESEL	9/10/98	7-7.5	4.2	Grab	PHC
83555	D2-3	SECOND 2,000-GALLON DIESEL	9/10/98	7-7 5	0	Grab	PHC
83556	D2-4	SECOND 2,000-GALLON DIESEL	9/10/98	2	0	Grab	PHC
83557	G2-1	1,000-GALLON UNLEADED GASOLINE	9/10/98	6.5	0.4	Grab	PPVOA+10, Pb
83558	G2-2	1,000-GALLON UNLEADED GASOLINE	9/10/98	6.5	0.2	Grab	PPVOA+10, Pb
83559	G2-3	1,000-GALLON UNLEADED GASOLINE	9/10/98	6.5	0.4	Grab	PPVOA+10, Pb
83560	G2-4	1,000-GALLON UNLEADED GASOLINE	9/10/98	2	0.3	Grab	PPVOA+10, Pb
83562	FO2-1	750-GALLON FUEL OIL*	9/11/98	6.5	0.6	Grab	PHC
83563	FO2-2	750-GALLON FUEL OIL*	9/11/98	6.5	0.5	Grab	PHC
83564	G1-5	1,000-GALLON LEADED GASOLINE	9/11/98	2	125	Grab	PPVOA+10, Pb
83561	TRIPBLANK	NA	9/10/98	NA	NA	NA	PPVOA+10

NOTES: NA = Not Applicable.
VOA = Volatiles
PP = Priority Pollutant.
PHC = Total Petroleum Hydrocarbons
* = Unregulated Underground Storage Tank

TABLE 2

TOTAL PETROLEUM HYDROCARBONS (TPH)

BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0597365

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	WO-1	WO-2	WO-3	G1-1	G1-2	G1-3	G1-4	G1-5
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	B2660	B2661	B2662	B2663	B2664	B2665	B2666	B3564
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/11/98
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor				1.0	1.0	1.0					
Units				mg/kg	mg/kg	mg/kg					
WET CHEMISTRY											
Total Petroleum Hydrocarbons (1AA18.1D)	NA	NA	NA	33.4	47.8	30.8	NR	NR	NR	NR	NR

Qualifiers
U - The compound was not detected at the indicated concentration
NR - Not analyzed

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	D1-1	D1-2	D1-3	D1-4	D1-5	FD-1	FD-2	FD-3	FD-4	FD-5
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	B2805	B2806	B2807	B2808	B2809	B2810	B2811	B2812	B2813	B2814
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/09/98	09/09/98	09/09/98	09/09/98	09/09/98	09/09/98	09/09/98	09/09/98	09/09/98	09/09/98
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
WET CHEMISTRY													
Total Petroleum Hydrocarbons (1AA18.1D)	NA	NA	NA	157	150	37.9	33.2	297	50.5	31.5	74.3	72.1	82.7

Qualifiers
U - The compound was not detected at the indicated concentration
NR - Not analyzed

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	D2-1	D2-2	D2-3	D2-4
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	B3553	B3554	B3555	B3556
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/10/98	09/10/98	09/10/98	09/10/98
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	SOLID	SOLID	SOLID	SOLID
Dilution Factor				1.0	1.0	1.0	1.0
Units				mg/kg	mg/kg	mg/kg	mg/kg
WET CHEMISTRY							
Total Petroleum Hydrocarbons (1AA18.1D)	NA	NA	NA	35.5	62.1	33.1	47.6

Qualifiers
U - The compound was not detected at the indicated concentration
NR - Not analyzed

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	G2-1	G2-2	G2-3	G2-4	FD2-1	FD2-2
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	B3557	B3558	B3559	B3560	B3562	B3563
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/10/98	09/10/98	09/10/98	09/10/98	09/11/98	09/11/98
Matrix	Criteria (ug/kg)	Criteria (ug/kg)	Criteria (ug/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor								1.0	1.0
Units								mg/kg	mg/kg
WET CHEMISTRY									
Total Petroleum Hydrocarbons (1AA18.1D)	NA	NA	NA	NR	NR	NR	NR	28.9	60.1

Qualifiers
U - The compound was not detected at the indicated concentration
NR - Not analyzed

TABLE 3A
VOLATILE ORGANIC COMPOUNDS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	WO-1	WO-2	WO-3	G1-1	G1-2	G1-3	G1-4	Trip_Blank	G1-5
Lab Sample Number					82660	82661	82662	82663	82664	82665	82666	82667	83564
Sampling Date					09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/08/98	09/11/98
Matrix					SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor						50 0		50 0	50 0	50 0	50 0	50 0	500 0
Units						ug/kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILE COMPOUNDS (GC/MS)													
	Chloromethane	520,000	1,000,000	10,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Bromomethane	79,000	1,000,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	VinylChloride	2,000	7,000	10,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Chloroethane	NA	NA	NA	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	MethyleneChloride	49,000	210,000	1,000	NR	360 U	NR	410 U	420 U	420 U	390 U	380 U	4100 U
	Trichlorofluoromethane	NA	NA	NA	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	1,1-Dichloroethene	8,000	150,000	10,000	NR	250 U	NR	270 U	280 U	280 U	260 U	250 U	2700 U
	1,1-Dichloroethane	570,000	1,000,000	10,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	trans-1,2-Dichloroethene	1,000,000	1,000,000	50,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	cis-1,2-Dichloroethene	79,000	1,000,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Chloroform	19,000	28,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	1,2-Dichloroethane	6,000	24,000	1,000	NR	250 U	NR	270 U	280 U	280 U	260 U	250 U	2700 U
	1,1,1-Trichloroethane	210,000	1,000,000	50,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	CarbonTetrachloride	2,000	4,000	1,000	NR	250 U	NR	270 U	280 U	280 U	260 U	250 U	2700 U
	Bromodichloromethane	11,000	46,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
	1,2-Dichloropropane	10,000	43,000	NA	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
(1)	cis-1,3-Dichloropropene	4,000	5,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Trichloroethene	23,000	54,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
	Dibromochloromethane	110,000	1,000,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	1,1,2-Trichloroethane	22,000	420,000	1,000	NR	360 U	NR	410 U	420 U	420 U	390 U	380 U	4100 U
	Benzene	3,000	13,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
(1)	trans-1,3-Dichloropropene	4,000	5,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	2-ChloroethylVinylEther	NA	NA	NA	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Bromoform	86,000	370,000	1,000	NR	500 U	NR	540 U	560 U	560 U	520 U	500 U	5400 U
	Tetrachloroethene	4,000	8,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
	1,1,2,2-Tetrachloroethane	34,000	70,000	1,000	NR	120 U	NR	140 U	140 U	140 U	130 U	120 U	1400 U
	Toluene	1,000,000	1,000,000	500,000	NR	160 J	NR	140 J	700 U	710 U	650 U	620 U	6800 U
	Chlorobenzene	37,000	680,000	1,000	NR	630 U	NR	680 U	700 U	710 U	650 U	620 U	6800 U
	Ethylbenzene	1,000,000	1,000,000	100,000	NR	500 U	NR	78 J	560 U	560 U	520 U	500 U	4700 J
	Xylene(Total)	410,000	1,000,000	10,000	NR	630 U	NR	340 J	700 U	710 U	650 U	620 U	90000
Total Confident Conc VOAs (s)						0		0	0	0	0	0	90000
Total Estimated Conc VOA TICs (s)						0		1400	760	0	1600	0	717000

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene

Qualifiers

U - The compound was not detected at the indicated concentration

J - Data indicates the presence of a compound that meets the identification criteria The result is less than the quantitation limit but greater than zero The concentration given is an approximate value

B - The analyte was found in the laboratory blank as well as the sample This indicates possible laboratory contamination of the environmental sample

NR - Not analyzed

6,800U - The compound was not detected at the indicated concentration and the Method Detection Limit (MDL) exceeds the most stringent Soil Cleanup Criteria

Concentration exceeds one or more of the soil cleanup criteria

TABLE 3B
VOLATILE ORGANIC COMPOUNDS (continued)
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID	New Jersey Residential	New Jersey Non-Residentia	New Jersey Impact t	D2-1	D2-2	D2-3	D2-4	G2-1	G2-2	G2-3	G2-4	F02-1	F02-2	Trip_Blank
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	83553	83554	83555	83556	83557	83558	83559	83560	83562	83563	83561
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/11/98	09/11/98	09/10/98
Matrix	Criteria (ug/kg)	Soil Cleanup Criteria (ug/kg)	Soil Cleanup Criteria (ug/kg)	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor								50 0	50 0	50 0	50 0			50 0
Units								ug/kg	ug/kg	ug/kg	ug/kg			ug/kg
VOLATILE COMPOUNDS (GC/MS)														
Chloromethane	520,000	1,000 000	10,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
Bromomethane	79,000	1,000 000	1,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
VinylChloride	2,000	7,000	10,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
Chloroethane	NA	NA	NA	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
MethyleneChloride	49,000	210 000	1 000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
Trichlorofluoromethane	NA	NA	NA	NR	NR	NR	NR	420 U	370 U	400 U	450 U	NR	NR	380 U
1,1-Dichloroethene	6,000	150,000	10,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
1,1-Dichloroethene	570,000	1,000,000	10,000	NR	NR	NR	NR	280 U	250 U	260 U	300 U	NR	NR	250 U
trans-1,2-Dichloroethene	1,000,000	1 000,000	50,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
cis-1,2-Dichloroethene	79,000	1,000 000	1,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
Chloroform	19,000	26,000	1,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
1,2-Dichloroethane	6,000	24 000	1,000	NR	NR	NR	NR	280 U	250 U	260 U	300 U	NR	NR	250 U
1,1,1-Trichloroethane	210,000	1,000,000	50 000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
CarbonTetrachloride	2 000	4,000	1,000	NR	NR	NR	NR	280 U	250 U	260 U	300 U	NR	NR	250 U
Bromodichloromethane	11,000	48,000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
1,2-Dichloropropene	10,000	43,000	NA	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
(1) cis-1,3-Dichloropropene	4,000	5,000	1,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
Trichloroethene	23,000	54,000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
Dibromochloromethane	110 000	1,000,000	1,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
1,1,2-Trichloroethane	22,000	420,000	1,000	NR	NR	NR	NR	420 U	370 U	400 U	450 U	NR	NR	380 U
Benzene	3 000	13,000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	150	NR	NR	120 U
(1) trans-1,3-Dichloropropene	4 000	5 000	1,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
2-ChloroethylVinylEther	NA	NA	NA	NR	NR	NR	NR	700 U	620 U	660 U	750 U	NR	NR	620 U
Bromoform	86 000	370 000	1,000	NR	NR	NR	NR	560 U	490 U	530 U	600 U	NR	NR	500 U
Tetrachloroethene	4 000	6 000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
1,1,2,2-Tetrachloroethane	34,000	70 000	1,000	NR	NR	NR	NR	140 U	120 U	130 U	150 U	NR	NR	120 U
Toluene	1 000,000	1,000 000	500,000	NR	NR	NR	NR	220 J	120 J	120 J	1900	NR	NR	620 U
Chlorobenzene	37,000	680 000	1,000	NR	NR	NR	NR	700 U	820 U	660 U	750 U	NR	NR	620 U
Ethylbenzene	1,000,000	1 000,000	100,000	NR	NR	NR	NR	560 U	490 U	530 U	510	NR	NR	500 U
Xylene(Total)	410,000	1,000,000	10,000	NR	NR	NR	NR	340 J	99 J	130 J	3300	NR	NR	620 U
Total Confident Conc VOAs (a)								0	0	0	5990			0
Total Estimated Conc VOA TICs (a)								0	0	0	4600			0

(1) Values listed reflect the combined standards for the cis and trans isomers of 1,3-Dichloropropene

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed

TABLE 4
SEMI-VOLATILE COMPOUNDS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0987345

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units		New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	WD-1 82660 09/08/98 SOLID	WD-2 82661 09/08/98 SOLID 1.0 ug/kg	WD-3 82662 09/08/98 SOLID	G1-1 82663 09/08/98 SOLID	G1-2 82664 09/08/98 SOLID	G1-3 82665 09/08/98 SOLID	G1-4 82666 09/08/98 SOLID
SEMIVOLATILE COMPOUNDS (GC/MS)											
	Phenol	10 000 000	10 000 000	50 000	NR	390 U	NR	NR	NR	NR	NR
	2-Chlorophenol	280 000	5 200 000	10 000	NR	390 U	NR	NR	NR	NR	NR
	2-Nitrophenol	NA	NA	NA	NR	390 U	NR	NR	NR	NR	NR
	2,4-Dimethylphenol	1 100 000	10 000 000	10,000	NR	390 U	NR	NR	NR	NR	NR
	2,4 Dichlorophenol	170 000	3 100 000	10 000	NR	390 U	NR	NR	NR	NR	NR
	4-Chloro-3-methylphenol	10,000 000	10 000 000	100 000	NR	390 U	NR	NR	NR	NR	NR
	2,4,6-Trichlorophenol	62 000	270,000	10 000	NR	390 U	NR	NR	NR	NR	NR
	2,4-Dinitrophenol	110,000	2 100 000	10,000	NR	1800 U	NR	NR	NR	NR	NR
	4-Nitrophenol	NA	NA	NA	NR	1800 U	NR	NR	NR	NR	NR
	4,6-Dinitro-2-methylphenol	NA	NA	NA	NR	1800 U	NR	NR	NR	NR	NR
	Pentachlorophenol	6 000	24 000	100 000	NR	1800 U	NR	NR	NR	NR	NR
	N-Nitrosodimethylamine	NA	NA	NA	NR	390 U	NR	NR	NR	NR	NR
	bis(2-Chloroethyl)ether	660	3,000	10 000	NR	39 U	NR	NR	NR	NR	NR
	1,3-Dichlorobenzene	5,100 000	10 000 000	100,000	NR	390 U	NR	NR	NR	NR	NR
	1,4-Dichlorobenzene	570 000	10 000 000	100,000	NR	390 U	NR	NR	NR	NR	NR
	1,2-Dichlorobenzene	5 100 000	10 000 000	50,000	NR	390 U	NR	NR	NR	NR	NR
	bis(2-chloroisopropyl)ether	2 300 000	10 000 000	10,000	NR	390 U	NR	NR	NR	NR	NR
	N-Nitroso-di-n-propylamine	660	660	10 000	NR	39 U	NR	NR	NR	NR	NR
	Hexachloroethane	6 000	100 000	100,000	NR	39 U	NR	NR	NR	NR	NR
	Nitrobenzene	28 000	520 000	10,000	NR	39 U	NR	NR	NR	NR	NR
	Isophorone	1,100 000	10 000 000	50,000	NR	390 U	NR	NR	NR	NR	NR
	bis(2-Chloroethoxy)methane	NA	NA	NA	NR	390 U	NR	NR	NR	NR	NR
	1,2,4-Trichlorobenzene	68 000	1 200 000	100,000	NR	39 U	NR	NR	NR	NR	NR
	Naphthalene	230 000	4 200 000	100 000	NR	9.5 J	NR	NR	NR	NR	NR
	Hexachlorobutadiene	1 000	21 000	100 000	NR	79 U	NR	NR	NR	NR	NR
	Hexachlorocyclopentadiene	400 000	7 300 000	100 000	NR	390 U	NR	NR	NR	NR	NR
	2-Chloronaphthalene	NA	NA	NA	NR	390 U	NR	NR	NR	NR	NR
	Dimethylphthalate	10 000 000	10 000 000	50 000	NR	390 U	NR	NR	NR	NR	NR
	Acenaphthylene	NA	NA	NA	NR	15 J	NR	NR	NR	NR	NR
(1)	2,6-Dinitrotoluene	1 000	4 000	10 000	NR	79 U	NR	NR	NR	NR	NR
	Acenaphthene	3 400 000	10 000 000	100 000	NR	22 J	NR	NR	NR	NR	NR
(1)	2,4-Dinitrotoluene	1,000	4 000	10 000	NR	79 U	NR	NR	NR	NR	NR
	Diethylphthalate	10 000 000	10 000 000	50 000	NR	390 U	NR	NR	NR	NR	NR
	4-Chlorophenyl-phenylether	NA	NA	NA	NR	390 U	NR	NR	NR	NR	NR
	Fluorene	2 300 000	10 000 000	100 000	NR	38 J	NR	NR	NR	NR	NR
	N-Nitrosodiphenylamine	140 000	600 000	100 000	NR	390 U	NR	NR	NR	NR	NR
	4-Bromophenyl-phenylether	NA	NA	NA	NR	390 U	NR	NR	NR	NR	NR
	Hexachlorobenzene	660	2 000	100 000	NR	39 U	NR	NR	NR	NR	NR
	Phenanthrene	NA	NA	NA	NR	300 J	NR	NR	NR	NR	NR
	Anthracene	10 000 000	10 000 000	100 000	NR	58 J	NR	NR	NR	NR	NR
	Di-n-butylphthalate	5 700 000	10 000 000	100 000	NR	390 U	NR	NR	NR	NR	NR
	Fluoranthene	2 300 000	10 000 000	100 000	NR	390 J	NR	NR	NR	NR	NR
	Pyrene	1 700,000	10 000 000	100 000	NR	390 J	NR	NR	NR	NR	NR
	Benzidine	NA	NA	NA	NR	1600 U	NR	NR	NR	NR	NR
	Butylbenzylphthalate	1,100 000	10 000 000	100,000	NR	390 U	NR	NR	NR	NR	NR
	3,3'-Dichlorobenzidine	2 000	6 000	100 000	NR	790 U	NR	NR	NR	NR	NR
	Benzo(a)anthracene	900	4 000	500,000	NR	170	NR	NR	NR	NR	NR
	Chrysene	9 000	40 000	500 000	NR	210 J	NR	NR	NR	NR	NR
	bis(2-Ethylhexyl)phthalate	49 000	210 000	100,000	NR	390 U	NR	NR	NR	NR	NR
	Di-n-octylphthalate	1,100 000	10,000 00	100 000	NR	390 U	NR	NR	NR	NR	NR
	Benzo(b)fluoranthene	900	4 000	50 000	NR	220	NR	NR	NR	NR	NR
	Benzo(k)fluoranthene	900	4 000	500 000	NR	100	NR	NR	NR	NR	NR
	Benzo(a)pyrene	660	660	100,000	NR	170	NR	NR	NR	NR	NR
	Indeno(1,2,3-cd)pyrene	900	4 000	500,000	NR	120	NR	NR	NR	NR	NR
	Dibenz(a,h)anthracene	660	660	100 000	NR	35 J	NR	NR	NR	NR	NR
	Benzo(g,h,i)perylene	NA	NA	NA	NR	110 J	NR	NR	NR	NR	NR
Total Confident Conc. BNAs (s)						780					
Total Estimated Conc. BNA TICs (s)						7100					

(1) Values listed reflect the combined standards for the 2,4/2,6-Dinitrotoluene mixture

^ Value is a revision to the Class IIA ground water quality standard based upon the November 18, 1996 Safe Drinking Water Act maximum contaminant level changes and the February 5, 1997 policy memo issued by Assistant Commissioner R. Gerwitz

Qualifiers

U - The compound was not detected at the indicated concentration

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

NR - Not analyzed.

TABLE 5
METALS
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	WO-1	WO-2		WO-3	G1-1	G1-2	G1-3	G1-4
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	82660	82661		82662	82663	82664	82665	82666
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/08/98	09/08/98		09/08/98	09/08/98	09/08/98	09/08/98	09/08/98
Matrix	Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	SOLID	SOLID		SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor					NA						
Units					mg/kg						
METALS											
Antimony	14	340	NA	NR	1.0	U	NR	NR	NR	NR	NR
Arsenic	20	20	NA	NR	1.0	B	NR	NR	NR	NR	NR
Beryllium	1	1	NA	NR	0.06	B	NR	NR	NR	NR	NR
Cadmium	1	100	NA	NR	0.094	U	NR	NR	NR	NR	NR
Chromium	NA	NA	NA	NR	4.4		NR	NR	NR	NR	NR
Copper	600	600	NA	NR	5.2	B	NR	NR	NR	NR	NR
Lead	400	600	NA	NR	25.2		NR	[redacted]431	80.3	274	258
Mercury	14	270	NA	NR	0.02	B	NR	NR	NR	NR	NR
Nickel	250	2,400	NA	NR	1.1	B	NR	NR	NR	NR	NR
Selenium	63	3,100	NA	NR	0.99	U	NR	NR	NR	NR	NR
Silver	110	4,100	NA	NR	0.33	U	NR	NR	NR	NR	NR
Thallium	2	2	NA	NR	1.1	U	NR	NR	NR	NR	NR
Zinc	1,500	1,500	NA	NR	34.9		NR	NR	NR	NR	NR

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NR - Not analyzed.

Sample ID	New Jersey Residential	New Jersey Non-Residential	New Jersey Impact to	D2-1	D2-2		D2-3	D2-4	G2-1	G2-2	G2-3	G2-4	FD2-1	FD2-2	G1-5
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	83553	83554		83555	83556	83557	83558	83559	83560	83562	83563	83564
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	09/10/98	09/10/98		09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/10/98	09/11/98	09/11/98	09/11/98
Matrix	Criteria (mg/kg)	Criteria (mg/kg)	Criteria (mg/kg)	SOLID	SOLID		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor									NA	NA	NA	NA			NA
Units									mg/kg	mg/kg	mg/kg	mg/kg			mg/kg
METALS															
Lead	400	600	NA	NR	NR		NR	NR	21.0	23.4	18.8	95.3	NR	NR	[redacted]423

Qualifiers

U - The compound was not detected at the indicated concentration.
B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
N - The spiked sample recovery is not within control limits.
NR - Not analyzed.
[redacted] Concentration exceeds one or more of the soil cleanup criteria.

TABLE 6
PESTICIDES/PCB'S
BOROUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
MONMOUTH AND FIFTH AVENUES
UST # 0097365

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	WO-1 82660 09/08/98 SOLID	WO-2 82661 09/08/98 SOLID 1.0 ug/kg	WO-3 82662 09/08/98 SOLID	G1-1 82663 09/08/98 SOLID	G1-2 82664 09/08/98 SOLID	G1-3 82665 09/08/98 SOLID	G1-4 82666 09/08/98 SOLID
PESTICIDES/PCBs										
(1) Aroclor-1016	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1221	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1232	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1242	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1248	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1254	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1260	490	2,000	50,000	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1262	NA	NA	NA	NR	79 U	NR	NR	NR	NR	NR
(1) Aroclor-1268	NA	NA	NA	NR	79 U	NR	NR	NR	NR	NR

(1) Values listed reflect the combined standards for "Total PCBs"

Qualifiers

U - The compound was not detected at the indicated concentration

J - Data indicates the presence of a compound that meets the identification criteria The result is less than the quantitation limit but greater than zero The concentration given is an approximate value

B - The analyte was found in the laboratory blank as well as the sample This indicates possible laboratory contamination of the environmental sample

P - For dual column analysis the percent difference between the quantitated concentrations on the two columns is greater than 40%

* - For dual column analysis the lowest quantitated concentration is being reported due to resulting interference

NR - Not analyzed

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ug/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ug/kg)	WO-1 82660 09/08/98 SOLID	WO-2 82661 09/08/98 SOLID 1.0 ug/kg	WO-3 82662 09/08/98 SOLID	G1-1 82663 09/08/98 SOLID	G1-2 82664 09/08/98 SOLID	G1-3 82665 09/08/98 SOLID	G1-4 82666 09/08/98 SOLID
PESTICIDES/PCBs										
Aldrin	40	170	50,000	NR	7.9 U	NR	NR	NR	NR	NR
alpha-BHC	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
beta-BHC	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
delta-BHC	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
gamma-BHC(Lindane)	520	2,200	50,000	NR	7.9 U	NR	NR	NR	NR	NR
Chlordane	NA	NA	NA	NR	79 U	NR	NR	NR	NR	NR
4,4'-DDD	3,000	12,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
4,4'-DDE	2,000	9,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
4,4'-DDT	2,000	9,000	500,000	NR	7.9 U	NR	NR	NR	NR	NR
Dieldrin	42	180	50,000	NR	7.9 U	NR	NR	NR	NR	NR
(2) Endosulfan I	340,000	6,200,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
(2) Endosulfan II	340,000	6,200,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
Endosulfansulfate	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
Endrin	17,000	310,000	50,000	NR	7.9 U	NR	NR	NR	NR	NR
Endrinaldehyde	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
Heptachlor	150	650	50,000	NR	7.9 U	NR	NR	NR	NR	NR
Heptachlorepoxide	NA	NA	NA	NR	7.9 U	NR	NR	NR	NR	NR
Toxaphene	100	200	50,000	NR	79 U	NR	NR	NR	NR	NR

(2) Soil Cleanup criteria is provided for "Endosulfan" without specification if it is for Endosulfan I or Endosulfan II

Qualifiers

U - The compound was not detected at the indicated concentration

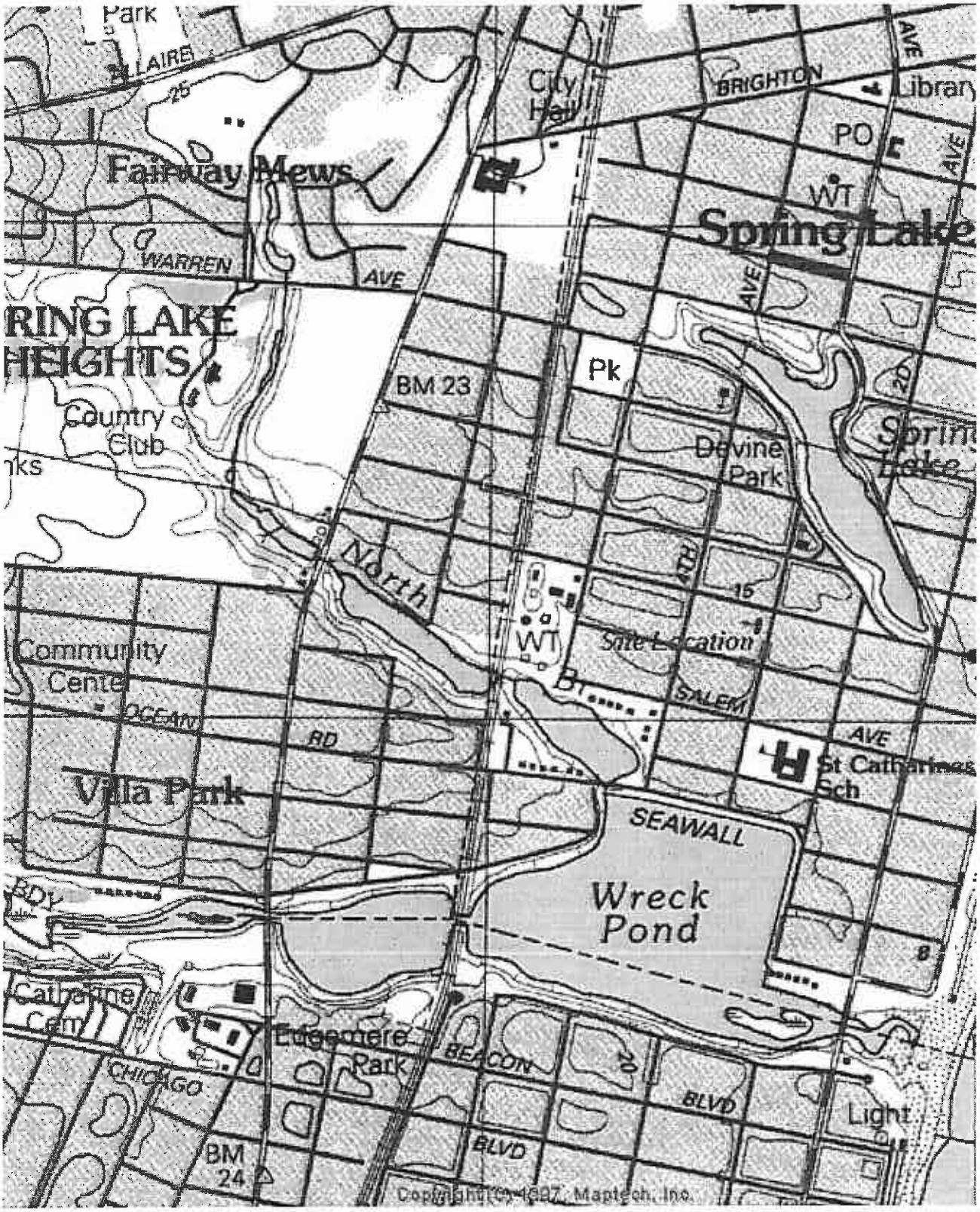
J - Data indicates the presence of a compound that meets the identification criteria The result is less than the quantitation limit but greater than zero The concentration given is an approximate value

B - The analyte was found in the laboratory blank as well as the sample This indicates possible laboratory contamination of the environmental sample

P - For dual column analysis the percent difference between the quantitated concentrations on the two columns is greater than 40%

* - For dual column analysis, the lowest quantitated concentration is being reported due to resulting interference

NR - Not analyzed



BORDUGH OF SPRING LAKE DEPARTMENT OF PUBLIC WORKS
5TH AND MONMOUTH AVENUES

REFERENCE
ASBURY PARK, N.J. QUADRANGLE

TM ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS

SITE LOCATION MAP

FIGURE 1 SCALE 1" = 2,000'

BOROUGH OF SPRING LAKE HEIGHTS

MONMOUTH COUNTY

True Meridian

BOUNDARY LINE

RAIL ROAD

NEW YORK AND LONG BRANCH (MAIN STEM) RAILROAD

BOUNDARY LINE

6 N.J. DEPT OF TRANS. 7

5

1.01

1.02

25

12 PUBLIC PROPERTY EXEMPTED

SECOND ST.

PROSPECT AVE.

26

SPRING LAKE WATER WORKS
PUBLIC PROPERTY
EXEMPTED
6.97 ACRES

FILL

Original Line

POND

PUBLIC PROPERTY - EXEMPTED

FIFTH AVE.

SHORE ROAD

CENTRAL AVE.

OCEAN AVE.

PUBLIC PROPERTY EXEMPTED 2.20 ACRES

GIRT

SEA

COUNTY

WRECK POND

BOROUGH OF MONMOUTH

BOUNDARY LINE

4

1

13.62Ac Total

PUBLIC PROPERTY
EXEMPTED

PUBLIC PROPERTY EXEMPTED

PUBLIC PROPERTY EXEMPTED

ROAD

AVE.

FOURTH

THIRD

PENNSYLVANIA AVE.

SALEM AVE.

ATLANTIC AVE.

MONMOUTH AVE.

ESSEX AVE.

EPISCOPAL CHURCH EXEMPTED

REVISIONS		
3/8/84	Rev. Prop. Line between Lots 11 & 12, Blk. 27.	T. B. C.
3/27/90	Rev. Prop. Line between Lots 12 & 13, Blk. 11, and Lot Nos. 12 & 13 Rev. to 12.01 & 13.01.	B. E. I.
7/14/95	Lot Nos Revised, From Block 22 Lots 1 & 2 To Block 22 Lots 101 & 2.01	B. E. I.

NEW JERSEY DEPARTMENT OF THE TREASURY
DIVISION OF TAXATION
LOCAL PROPERTY AND PUBLIC UTILITY BRANCH
APPROVED AS A TAX MAP PURSUANT TO THE PROVISIONS OF CHAPTER 175, LAWS OF 1933, ETC. FOR THE DIRECTOR, DIVISION OF TAXATION
BY J. W. Pittenger P.E. & L.S. SUPERINTENDENT
Lic. #5000
DATE MAY 18 1982 CTRL. NO 606

TAX MAP

BOROUGH OF
SPRING LAKE
MONMOUTH COUNTY, N. J.
SCALE 1" = 100' MARCH 5, 1982
THE BIRDSALL CORPORATION
1700 "F" STREET, SOUTH BELMAR, N.J.
WILLIAM T. BIRDSALL P.E.
BOROUGH ENGINEER, Lic. № 25535
ROBERT L. FARRY L.S.
Lic. № 13444

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THE PURPOSE ORIGINALLY INTENDED, WITHOUT THE WRITTEN PERMISSION OF T&M ASSOCIATES, IS PROHIBITED

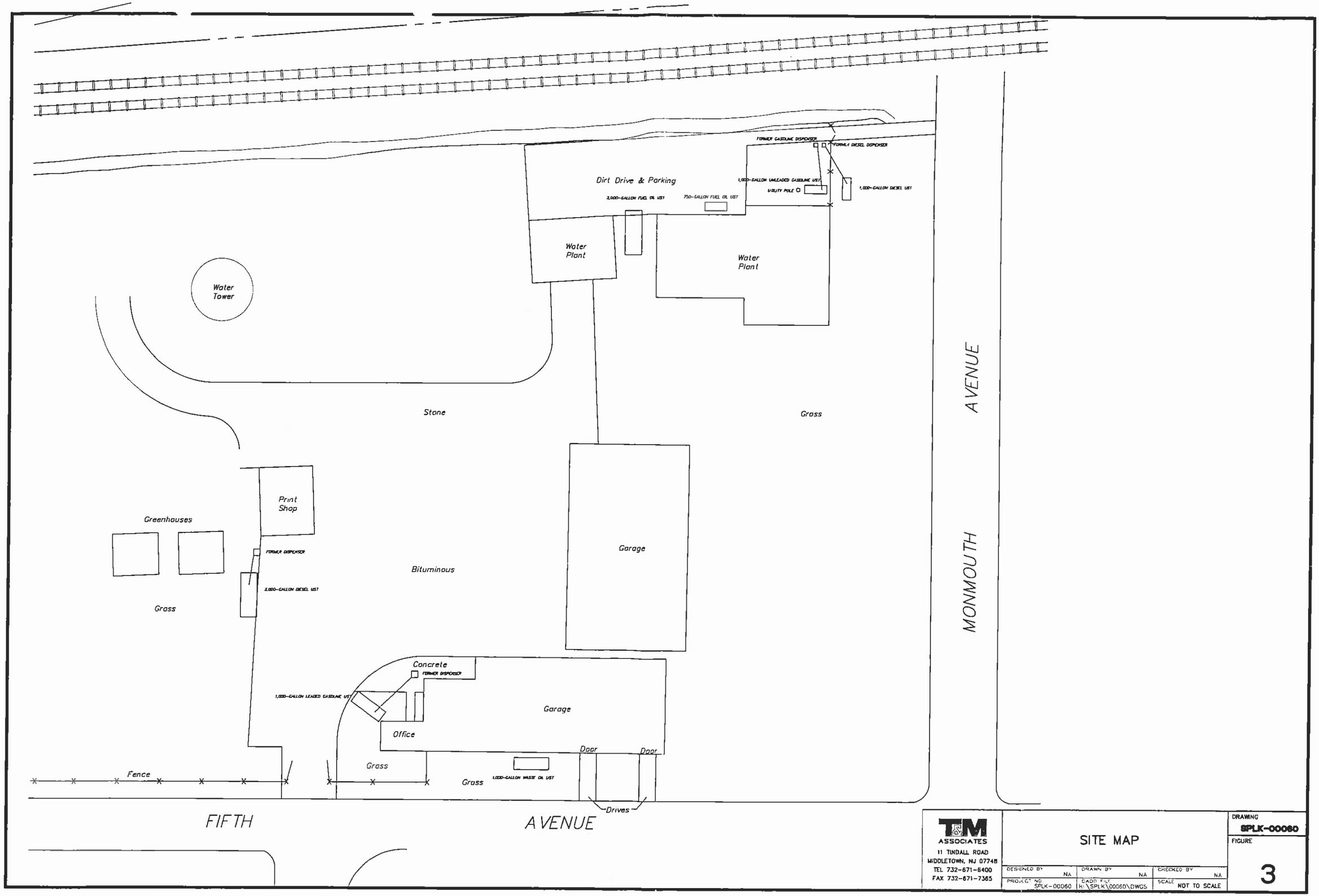
T&M ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

TAX MAP

DESIGNED BY	DRAWN BY	CHECKED BY
NA	NA	NA
PROJECT NO. SPLK-00060	CADD FILE NA	FIELD BK # NA

DRAWING SPLK-00060

FIGURE 2



TM ASSOCIATES
11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

SITE MAP

DESIGNED BY	DRAWN BY	CHECKED BY
NA	NA	NA

PROJECT NO	CADD FILE	SCALE
SPLK-00060	H:\SPLK\00060\DWGS	NOT TO SCALE

DRAWING SPLK-00060

FIGURE 3

ELEVEN TINDALL ROAD MIDDLETOWN NEW JERSEY 07748-2792
(732) 671-6400 • Fax (732) 671-7365 • www.tamace.com • info@tamace.com

T&M ASSOCIATES

SPLK-00060

December 11, 1998

New Jersey Department of Environmental Protection
Division of Responsible Party Site Remediation
Southern Field Office
P.O. Box 407
Trenton, NJ 08625-0407

Re: Department of Public Works
Borough of Spring Lake
Remedial Investigation Report Submittal

To Whom It May Concern:

Enclosed is the *Remedial Investigation Report (RIR)* for the above referenced site.

The RIR summarizes activities performed during the removal of five regulated Underground Storage Tanks (UST's) and two unregulated UST's at the Department of Public Works. All activities were performed in accordance with NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

As presented in the RIR, only one of the tank areas was found to contain concentrations of contaminants above the most stringent New Jersey Department of Environmental Protection Soil Cleanup Criteria.

If you have any questions, please call.

Very truly yours,

T&M ASSOCIATES

JOHN E. VANDERSLICE, P.G.
PRINCIPAL HYDROGEOLOGIST

JEV:DPB:sec
Enclosures
cc: Thomas J. Byrne III, Mayor
Mary Anne Coogan, Borough Clerk
Wayne Patterson, Councilman
H:\SPLK00060\BUST.DOC

REMEDIAL INVESTIGATION REPORT

Borough of Spring Lake Department of Public Works
Fifth and Monmouth Avenues
Block 26, Lot 1
Spring Lake, Monmouth County, New Jersey
UST Registration #0097365
NJDEP Case #98-11-12-0857-49

December 9, 1998

Prepared For:

Borough of Spring Lake
Fifth and Warren Avenues
Spring Lake, NJ 07762

Charles J. Rooney, P.E., P.P.
Borough of Spring Lake Engineer

Prepared By:

John E. Vanderslice, P.G.
Principal Hydrogeologist
Certification No. 001260

T&M Associates
11 Tindall Road
Middletown, NJ 07748

T&M ASSOCIATES

Consulting Engineers • Planners • Surveyors

(12/97) New J. :y Department of Environmental Pr :ction

Site Remediation Program

UST Site/Remedial Investigation Report Certification Form

A. Facility Name : Department of Public Works

Facility Street Address : Fifth and Monmouth Avenues

Municipality: Borough of Spring Lake County : Monmouth

Block: 26 Lot(s): 1 Telephone Number : (732) 449 0800

B. Owner (RP)'s Name: Borough of Spring Lake

Street Address: Fifth and Warren Avenues City : Spring Lake

State: NJ Zip: 07762 Telephone Number : (732) 449 0800

C. (Check as appropriate)

- ☐ Site Investigation Report (SIR) $500 Fee
- ☒ Remedial Investigation Report (RIR) $1000 Fee

D. (Complete all that apply)

- Assigned Case Manager :
- UST Registration Number : 0097365 (7 digits)
- Incident Report Number _-_-_-_-_-_ (10 or 12 digits)

  ___-___-___-___-_____-_
- Tank Closure Number C(N)9_-____ C9_-___ C9__-_____ (7 characters)

E. **Certification by the Subsurface Evaluator:**

The attached report conforms to the specific reporting requirements of N.J.A.C. 7:26E ..... **Yes** No

Name: John Vanderslice Signature: _____ UST Cert. No.: 0012601

Firm: T&M Associates Firm's UST Cert. Number: 1300443

Firm Address: 11 Tindall Road City: Middletown

State: NJ Zip: 07748 Telephone Number : (732) 671 6400

(NOTE: Certification numbers required only if work was conducted on USTs regulated per N.J.S.A. 58:10A-21 et seq.)

F. **Certification by the Responsible Party(ies) of the Facility:**

The following certification shall be signed [according to the requirements of N.J.A.C. 7:14B-1.7(b)]as follows:

1. For a Corporation by a person authorized by a resolution of the board of directors to sign the document. A copy of the resolution, certified as a true copy by the secretary of the corporation, shall be submitted along with the certification; or
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, federal or other public agency by either a principal executive officer or ranking elected Official.

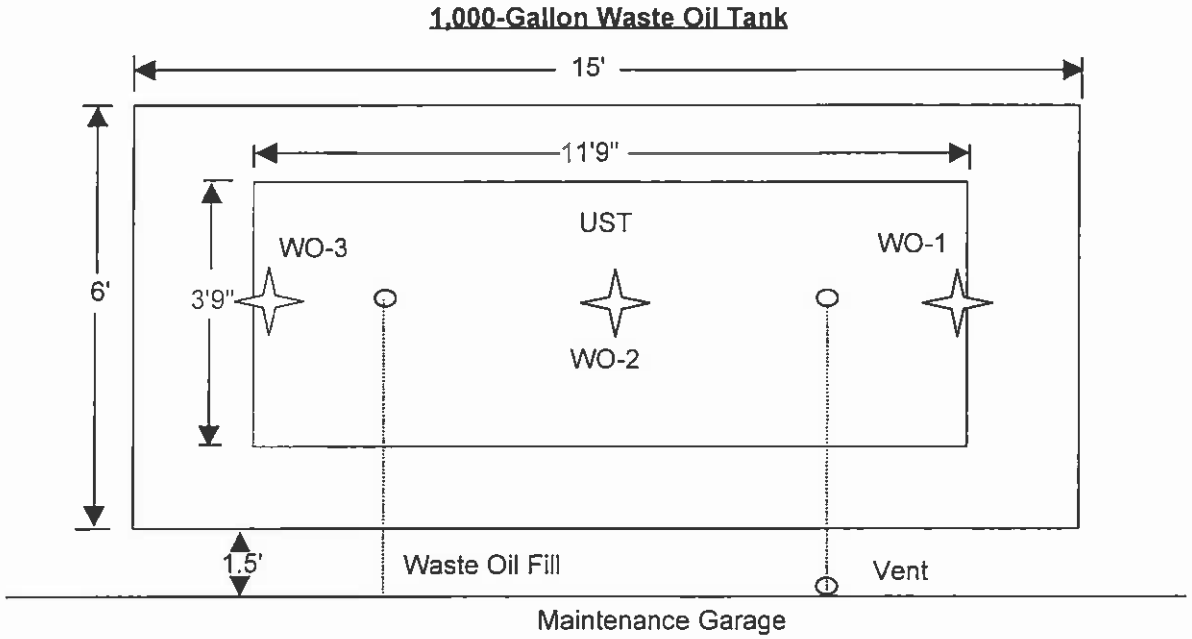
"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate, or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Name (Print or Type): Thomas J. Byrne III Title: Mayor

Signature: Thomas J. Byrne III

Company Name: Borough of Spring Lake Date: 12/1/98

Figure 4A.
Soil Sample Locations Map



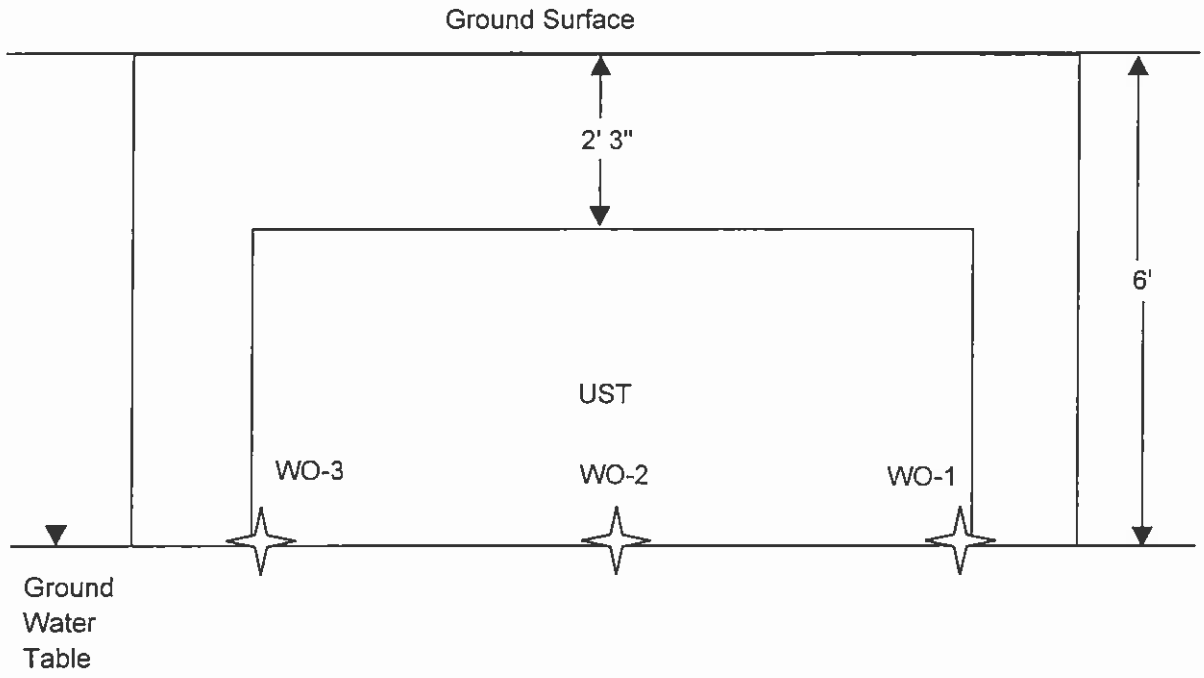


Figure 4B.
Soil Sample Locations Map

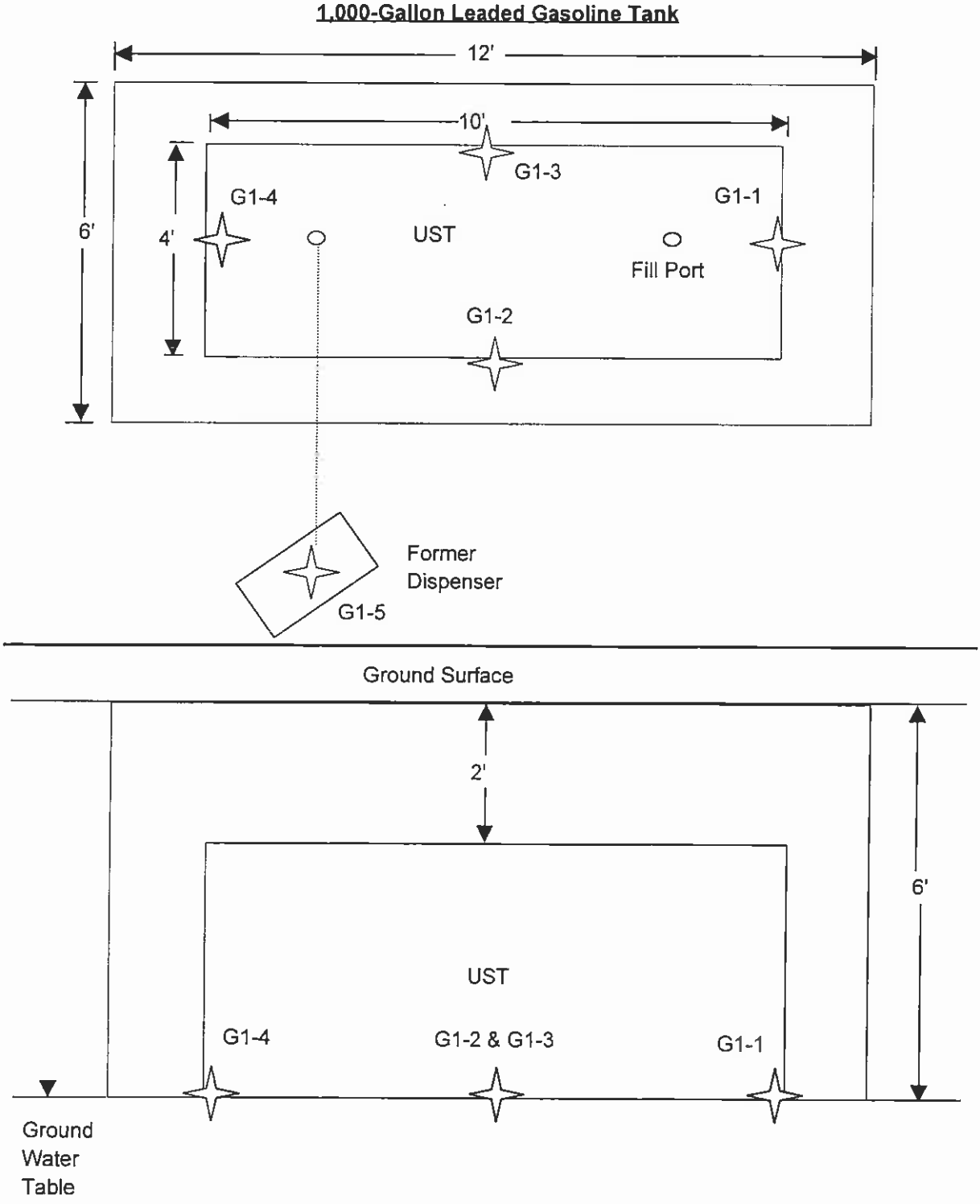
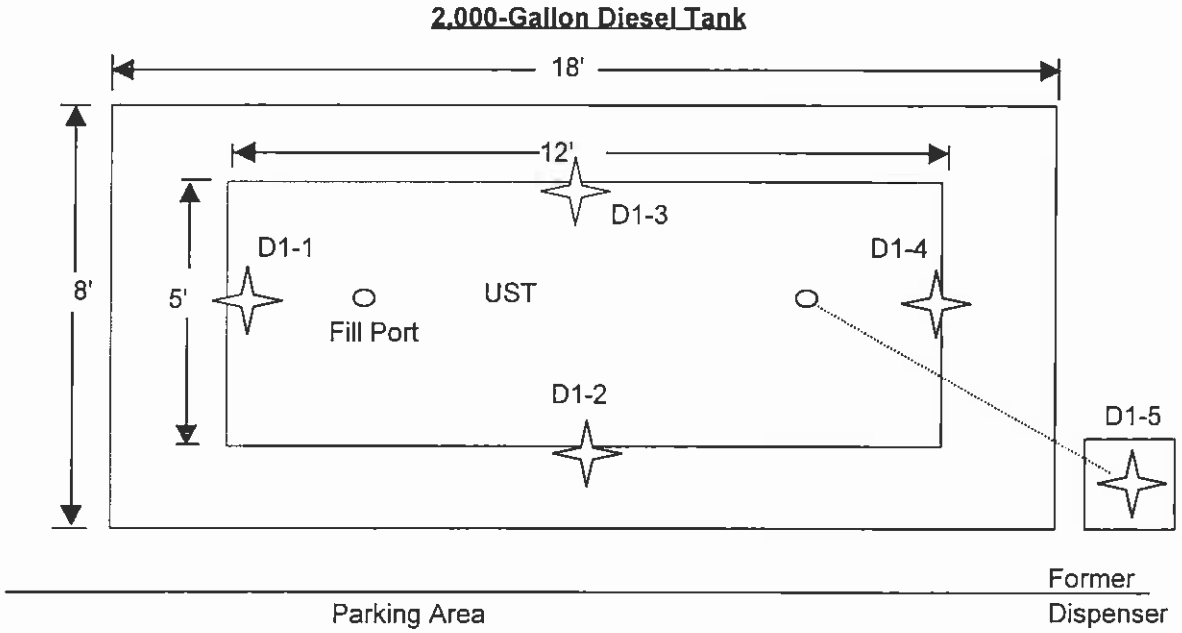


Figure 4C.
Soil Sample Locations Map



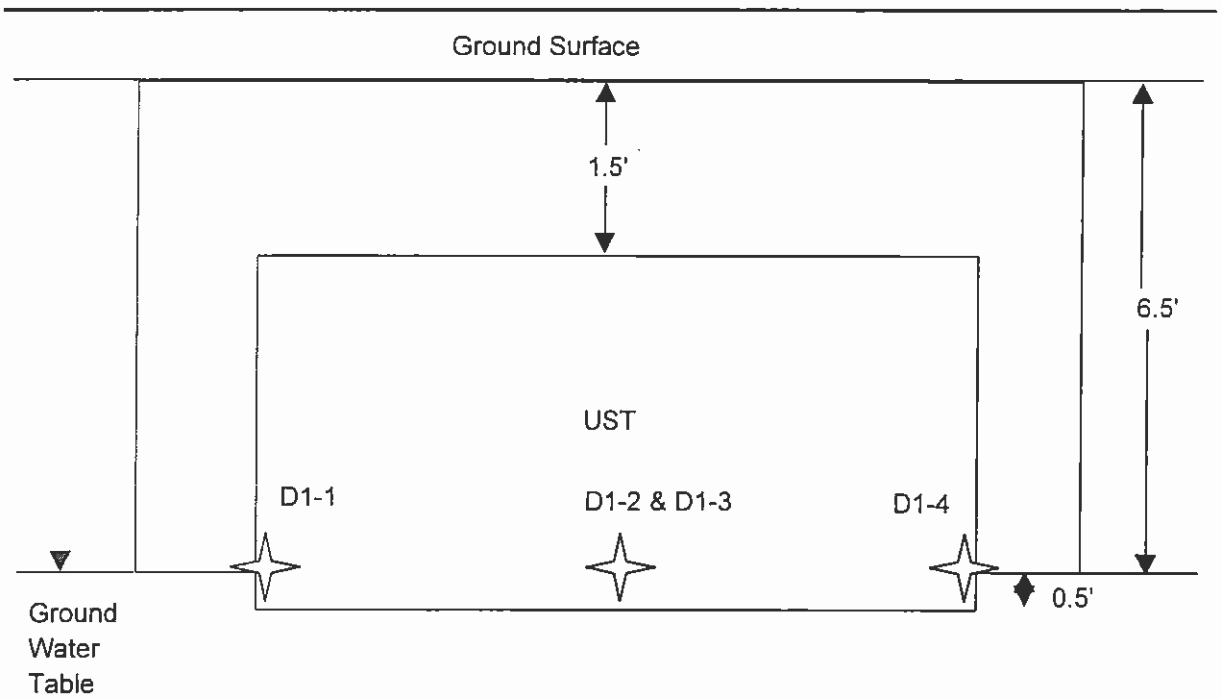


Figure 4D.
Soil Sample Locations Map

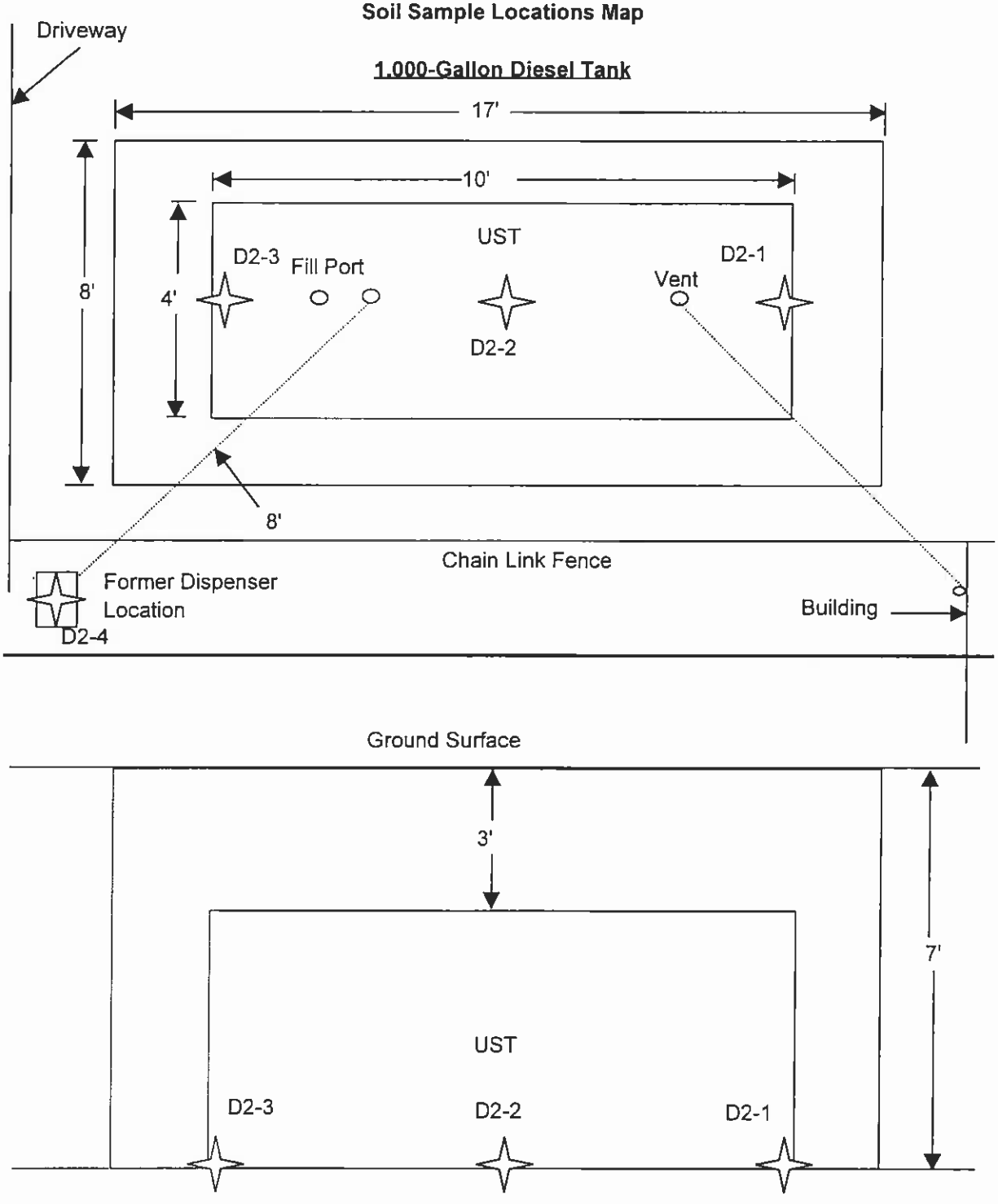
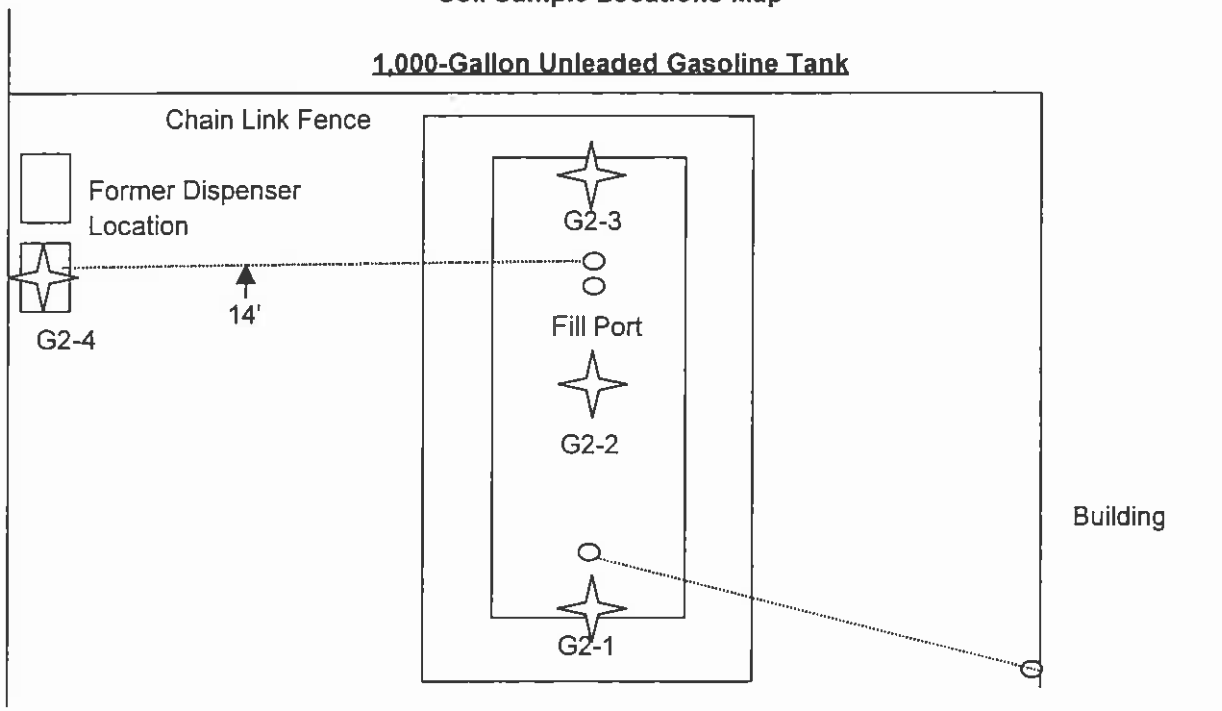
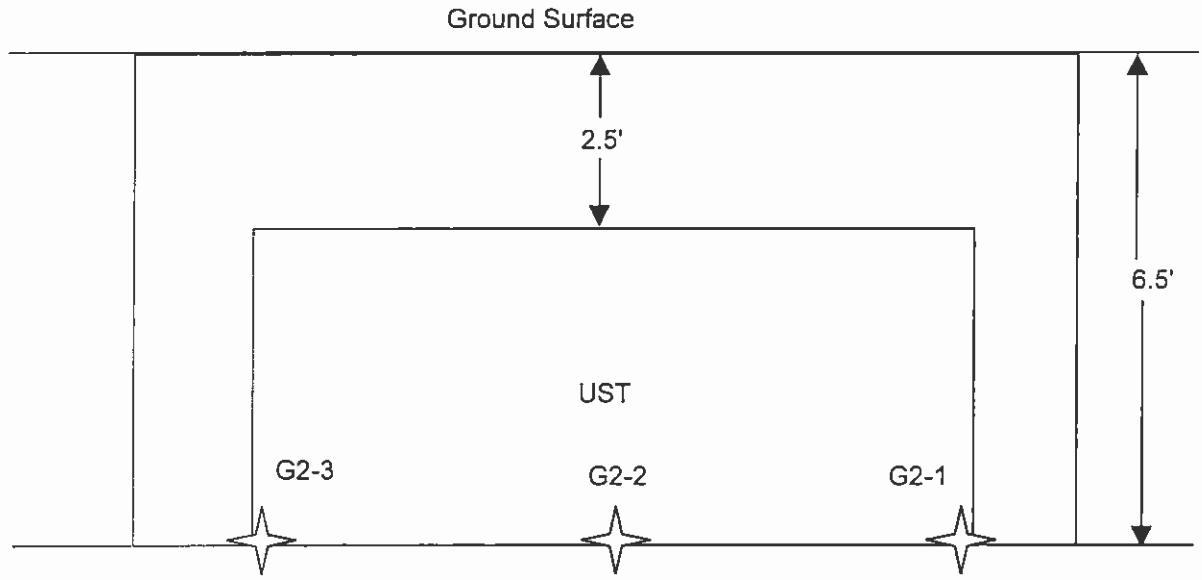


Figure 4E.
Soil Sample Locations Map





Appendix 1

Known Contaminated Sites in New Jersey

NJDEP Site Remediation Program - Known Contaminated Sites

KCS-NJ County Listing (September 1997) Monmouth County

SITE NAME **STREET ADDRESS**
IDENTIFIER

SPRING LAKE BOROUGH

A.SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION

107 1ST AVENUE 107 1ST AVE
NJL000063917
STATUS: ACTIVE - 03/14/1997 CONTACT:
BFO-S - 9304301408

118 YORK AVENUE 118 YORK AVE
NJL800268435
STATUS: ACTIVE - 05/07/1997 CONTACT:
BFO-S - 961101083752

1402 1ST AVENUE 1402 1ST AVE
NJL800251381
STATUS: ACTIVE - 04/08/1997 CONTACT:
BFO-S - 960917141757

407 WASHINGTON AVENUE 407 WASHINGTON AVE
NJL800089849
STATUS: ACTIVE - 04/11/1995 CONTACT:
BFO-S - 940921090757

CLAYTON LIMOUSINE COMPANY 1207 3RD AVE
NJL800027856
STATUS: ACTIVE - 12/21/1993 CONTACT:
BUST - 0252010

EXXON SERVICE STATION SPRING LAKE BORO RTE 71 & WARREN AVE
NJD986610558
STATUS: ACTIVE - 05/31/1995 CONTACT:
BUST - 0083766

MOBIL SERVICE STATION SPRING LAKE BORO RTE 71 & SHORE PL
NJD986606325
STATUS: ACTIVE - 12/20/1989 CONTACT:
BUST - 0062264

OSCOM INCORPORATED 114 ATLANTIC AVE
NJL800285454
STATUS: ACTIVE - 05/01/1997 CONTACT:
BFO-S - 970116160610

SPRING LAKE BOROUGH BOARD OF EDUCATION 411 TUTTLE AVE
NJL600070551
STATUS: ACTIVE - 08/30/1990 CONTACT:
BFCM-6 - 0112420

9 Site(s) with On-Site Contamination in SPRING LAKE BOROUGH

B.SITES WITH UNKNOWN SOURCE(S) OF CONTAMINATION

0 Unknown Source Contaminated Site(s) in SPRING LAKE BOROUGH

C.SITES WITH CASE(S) THAT WERE CLOSED BETWEEN 07/01/1996 AND 06/30/1997

107 PENNSYLVANIA AVENUE 107 PENNSYLVANIA AVE
NJL800189052
STATUS: NFA - 12/31/1996 CONTACT:
BFO-S - 951127174224

1 Site(s) with Cases that were Closed Between 07/01/1996 and 06/30/1997 in SPRING LAKE BOROUGH

SPRING LAKE HEIGHTS BOROUGH

A.SITES WITH ON-SITE SOURCE(S) OF CONTAMINATION

BROWNS AUTO SHOP 1820 RTE 71
NJD986616167
STATUS: ACTIVE - 04/11/1989 CONTACT:
BUST - 0151797

GETTY SERVICE STATION SPRING LAKE HEIGHT 2313 RTE 71 & WALL RD
NJL600199129
STATUS: ACTIVE - 08/24/1993 CONTACT:
BUST - 0016995

SPRING LAKE HEIGHTS DEPT OF PUBLIC WORKS 555 ATLANTIC AVE
NJD981873342
STATUS: ACTIVE - 09/29/1986 CONTACT:
BUST - 0044435

SPRING LAKE MINI MALL RTE 71 S & WALL RD
NJL800002966
STATUS: PENDING - 11/22/1994 CONTACT:
BUST - 9411126

4 Site(s) with On-Site Contamination in SPRING LAKE HEIGHTS BOROUGH

B.SITES WITH UNKNOWN SOURCE(S) OF CONTAMINATION

0 Unknown Source Contaminated Site(s) in SPRING LAKE HEIGHTS BOROUGH

C.SITES WITH CASE(S) THAT WERE CLOSED BETWEEN 07/01/1996 AND 06/30/1997

0 Site(s) with Cases that were Closed Between 07/01/1996 and 06/30/1997 in SPRING LAKE HEIGHTS BOROUGH

Appendix 2

Residual Liquid Disposal Manifests

REEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924

175 BARTOW MUN AIRPORT
BARTOW, FL 33830
PHONE: (941) 533-4599
FAX: (941) 533-1613

108 MONAHAN AVENUE
DUNMORE, PA 18512
PHONE: (717) 342-7232
FAX: (717) 342-7367

350 PIGEON POINT ROAD
NEW CASTLE, DE 19720
PHONE: (302) 658-2005
FAX: (302) 658-6229

156 DRIFTWOOD DRIVE
EUTAWVILLE, SC 29048
PHONE/FAX: (803) 492-8595

MANIFEST

FCI EPA ID NO.: NJD054126164

I 86018

GENERATOR NAME/ADDRESS	PHONE (AREA CODE)	GENERATOR EPA ID NO.
Borough of Spring Lake Fifth & Ludlow Ave. Spring Lake, N.J.	732-449-0800	NJ0986669999
	TRACTOR: 518 / TRAILER: 71	APPOINTMENT TIME: :

FCI REP. LOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED	TIME AT GENERATOR (MILITARY TIME ONLY)
Ed Williams				: ARRIVAL TIME / : DEPARTURE TIME

COMMENTS OR DELAYS AT GENERATOR	EQUIPMENT USED

BROKER:

PO#: WO#:

STATE MANIFEST NO.: NJA 2215611

(X) HM		PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
X	1	Waste Flammable Liq.	B	1993	II	1	TT	1670	G	D001	1
	2										
	3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (I.E., IDENTIFICATION SHIPMENT OF A NON-HAZARDOUS NATURE WHICH DOES NOT HAVE TO BE MANIFESTED).

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transported named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the generator is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE	GENERATOR'S SIGNATURE	DATE LOADED
	X _____ I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.	/ / MO. DAY YR.

TSDF NAME/ADDRESS	PHONE (AREA CODE)	TSDF EPA ID NO.
Cycle Chem 217 S 1st St. Elizabeth, NJ.	908-355-5800	NJD002204046
	TRACTOR / TRAILER	APPOINTMENT TIME: :

FCI REP. UNLOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED	TIME AT TSDF (MILITARY TIME ONLY)
Ed Williams				: ARRIVAL TIME / : DEPARTURE TIME

COMMENTS OR DELAYS AT TSDF	EQUIPMENT USED

PLEASE PRINT NAME/TITLE	TSDF SIGNATURE	DATE UNLOADED
	X _____	/ / MO. DAY YR.

AR H-0257 PC 944	ME ME-HWT-47 ME-WOT-47	MO H-1490	NOVA SCOTIA, CANADA NSC 000 147	QUEBEC, CANADA QC-6ML-047
CT CT-HW-307	MD HWH-167 96-OP-1765	ND WH-429	OH 333-HW	RI RI-535
DE DE-HW-203 DE-SW-203	MA MA-294	NH TNH-0047	OK 3358	TX 40705
IL SWH-1540	MN 61572	NJ S-2265 15939	ONTARIO, CANADA A 840943	WI 11602
		NY JA-113	PA PA-AH-0067	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer

I 86018

State of New Jersey
Department of Environmental Protection
Hazardous Waste Regulation Program
Manifest Section
CN 421, Trenton, NJ 08625-0421

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039 Expires 9-30-9

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD980[illegible]2 | Manifest Document No 21[illegible]2 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: Borough of Spring Lake, Fifth & Ocean Ave., Spring Lake, NJ 07762

A. State Manifest Document Number: **NJA 2215611**

B. State Generator's ID-(Gen. Site Address)

4. Generator's Phone (732)

5. Transporter 1 Company Name: [illegible] Carriers, Inc.

6. US EPA ID Number: NJD[illegible]

C. State Trans. ID-NJDEPE

Decal No.-

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone ( )

E. State Trans. ID-NJDEPE

Decal No.-

9. Designated Facility Name and Site Address: [illegible] Corp., Inc., 217 South Front Street, Elizabeth, NJ 0720[illegible]

10. US EPA ID Number: NJD[illegible]

F. Transporter's Phone ( )

G. State Facility's ID

H. Facility's Phone ( )

11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No
a. NA, Waste Flammable Liquid, n.o.s., 3, UN1993, PGII (Fuel Oil), (gasoline)		[illegible]	[illegible]	01870	G	D001
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

a. Antigens Soil Gas Water 013 2

b.

c.

d.

K. Handling Codes for Wastes Listed Above

a.

b.

c.

d.

15. Special Handling Instructions and Additional Information

Use spill or leak spill Procedures (800)424-8802 and 120

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: X [illegible]

Signature: X [illegible]

Month Day Year: [illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

In case of an emergency or spill immediately call the State Police Hotline (609) 882-2000 and the Hazardous Substance Response Unit (609) 292-7172

Appendix 3

Tank Disposal Documentation

REEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924

175 BARTOW MUN AIRPORT
BARTOW, FL 33830
PHONE (941) 533-4599
FAX (941) 533-1613

108 MONAHAN AVENUE
DUNMORE, PA 18512
PHONE: (717) 342-7232
FAX: (717) 342-7367

350 PIGEON POINT ROAD
NEW CASTLE, DE 19720
PHONE: (302) 658-2005
FAX: (302) 658-6229

156 DRIFTWOOD DRIVE
EUTAWVILLE, SC 29048
PHONE/FAX: (803) 492-9595

MANIFEST

FCI EPA ID NO.:
NJD054126164

I83375

GENERATOR NAME/ADDRESS	PHONE (AREA CODE)	GENERATOR EPA ID NO.
BOROUGH OF SPRING LAKE Monmouth Ave Spring Lake NJ	TRACTOR 77 / TRAILER	APPOINTMENT TIME :

FCI REP. LOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED	TIME AT GENERATOR (MILITARY TIME ONLY)
Jim Burdge				10:00 ARRIVAL TIME / 16:00 DEPARTURE TIME

COMMENTS OR DELAYS AT GENERATOR

EQUIPMENT USED

BROKER: E.L.S.
PO#:
WO#: 74615

STATE MANIFEST NO.:

	(X) HM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT	CONT TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1		Five Load Tea Fuel tanks, Make 3 trips to Blewett Scrap Yard									
2											
3											

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (I.E., IDENTIFICATION SHIPMENT OF A NON-HAZARDOUS NATURE WHICH DOES NOT HAVE TO BE MANIFESTED).

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transported named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the generator is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE	GENERATOR'S SIGNATURE	DATE LOADED
M.L. Schlenger	X M.L.S. I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT	9/11/98 MO. DAY YR.

TSDF NAME/ADDRESS	PHONE (AREA CODE)	TSDF EPA ID NO.
	TRACTOR / TRAILER	APPOINTMENT TIME :

FCI REP. UNLOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED	TIME AT TSDF (MILITARY TIME ONLY)
				: ARRIVAL TIME / : DEPARTURE TIME

COMMENTS OR DELAYS AT TSDF

EQUIPMENT USED

PLEASE PRINT NAME/TITLE	TSDF SIGNATURE	DATE UNLOADED
	X	/ / MO. DAY YR.

AR H-0257 PC 944	ME ME-HWT-47 - ME-WOT-47	MO H-1490	NOVA SCOTIA, CANADA NSC 000 147	QUEBEC, CANADA QC-6ML-047
CT CT-HW-307	MD HWH-167 96-OP-1765	ND WH-429	OH 333-HW	RI RI-535
DE DE-HW-203 DE-SW-203	MA MA-294	NH TNH-0047	OK 3358	TX 40705
IL SWH-1540	MN 61572	NJ S-2265 15939	ONTARIO, CANADA A 840943	WI 11602
		NY JA-113	PA PA-AH-0067	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer

I83375

JOHN BLEWETT INC.

AUTO WRECKER
SCRAP RECYCLING
USED AUTO PARTS

FCZ

246 HERBERTSVILLE RD.
HOWELL, N.J. 07731
(732) 938-5331

9-11-98

DATE

WEIGHT	+ GAUK	PRICE	TOTAL
4150	#1 STEEL	200	81.60
	#2 STEEL		
	D.M.B.		
	CAST IRON		
	COPPER		
	COPPER		
	COPPER		
	BRASS		
	ALUM		
	RADS		
	BATT		
	LITE IRON		
	AL CANS		
	CARS		

I am the owner of said vehicle(s) and I release it to **John Blewett, Inc.**

Signature of Owner:_____

JOHN BLEWETT INC.

AUTO WRECKER
SCRAP RECYCLING
USED AUTO PARTS

FCI

246 HERBERTSVILLE RD.
HOWELL, N.J. 07731
(732) 938-5331

5-11-95

DATE

WEIGHT	Tonic	PRICE	TOTAL
2750	#1 STEEL	2 00	57.60
	#2 STEEL		
	D.M.B.		
	CAST IRON		
	COPPER		
	COPPER		
	COPPER		
	BRASS		
	ALUM		
	RADS		
	BATT		
	LITE IRON		
	AL CANS		
	CARS		

I am the owner of said vehicle(s) and I release it to **John Blewett, Inc.**

Signature of Owner:_____

JOHN BLEWETT INC.

AUTO WRECKER
SCRAP RECYCLING
USED AUTO PARTS

246 HERBERTSVILLE RD.
HOWELL, N.J. 07731
(732) 938-5331

FC1

DATE 9-11-98

WEIGHT	FANICS	PRICE	TOTAL
3720	#1 STEEL	200	74.40
	#2 STEEL		
	D.M.B.		
	CAST IRON		
	COPPER		
	COPPER		
	COPPER		
	BRASS		
	ALUM		
	RADS		
	BATT		
	LITE IRON		
	AL CANS		
	CARS		

I am the owner of said vehicle(s) and I release it to **John Blewett, Inc.**

Signature of Owner:_____

Appendix 4

Clean Fill Material Tickets

NEW JERSEY GRAVEL & SAND CO.,INC.
P.O. Box1441
WALL, N.J. 07719

PHONE: 732-938-5252 FAX: 732-938-4607

To: Freehold Cartage Inc.
P.O. Box 5010
Freehold, NJ 07728

Date of Job: 9-98

Job Name: Borough of Spring Lake
Spring Lake, NJ

Dear Mike,

In reference to our telephone conversation, I am writing this letter stating that the Bank Run Gravel delivered to the Spring Lake Municipal yard September '98 was virgin material and free from any contaminants.

Very truly yours,

Kevin C. Gannon
Vice President

P.O. Box 1441
Wall, NJ 07719

(732) 938-5252

Route 34 South
Wall, NJ

New Jersey Gravel and Sand Co.

DECORATIVE STONE • TOPSOIL
LANDSCAPE SUPPLIES • MULCH
R.R. TIES • CLAY • WALLSTONE

11543

Date 9-8-98

FCT

MONMOUTH & 5TH AVE

PUBLIC WORKS SPRING LAKE

CHARGE	C.O.D	YARD	DELIVERED
		6	

Gross

Tare 29000

Net 45200 BANK RUN GRAVEL

22.6 TON

NO DELIVERIES MADE INSIDE THE CURB LINE
EXCEPT AT CUSTOMER'S RISK.

375394

Rec'd. By M.L. Schlenger

I agree to accept this material purchased from N.J. Gravel & Sand Co.

MAILING ADDRESS
P.O. Box 1441
Wall, NJ 07719

(732) 938-5252

YARD
Route 34 South
Wall, NJ

New Jersey Gravel and Sand Co.

DECORATIVE STONE • TOPSOIL
LANDSCAPE SUPPLIES • MULCH
R.R. TIES • CLAY • WALLSTONE

11543

Date 9-8-98

FCT

MONMOUTH & 5TH AVE

PUBLIC WORKS SPRING LAKE

CHARGE	C.O.D.	YARD	DELIVERED
		6	

Gross

Tare 24900

Net 40800 BANK RUN GRAVEL

20.4 TON

NO DELIVERIES MADE INSIDE THE CURB LINE
EXCEPT AT CUSTOMER'S RISK.

375395

Rec'd. By M.L. Schlenger

I agree to accept this material purchased from N.J. Gravel & Sand Co.

MAILING ADDRESS
P.O. Box 1441
Wall, NJ 07719

MIKE 908-770-1255 (MP) x74

(732) 938-5252

YARD
Route 34 South
Wall, NJ

New Jersey Gravel and Sand Co.

DECORATIVE STONE • TOPSOIL
LANDSCAPE SUPPLIES • MULCH
R.R. TIES • CLAY • WALLSTONE

11543

Date 9-8-98

FCT

MONMOUTH & 5TH AVE

PUBLIC WORKS SPRING LAKE

CHARGE	C.O.D	YARD	DELIVERED
		6	

Gross

Tare 29000

Net 45200 BANK RUN GRAVEL

22.5 TON

NO DELIVERIES MADE INSIDE THE CURB LINE
EXCEPT AT CUSTOMER'S RISK.

374941

Rec'd. By M.L. Schlenger

I agree to accept this material purchased from N.J. Gravel & Sand Co.

Appendix 5

Photo Documentation of Tank Removals

Photo #1: View of 1,000-gallon waste oil tank excavation, facing north.

Photo #2: View of 1,000-gallon leaded gasoline tank excavation, facing north.

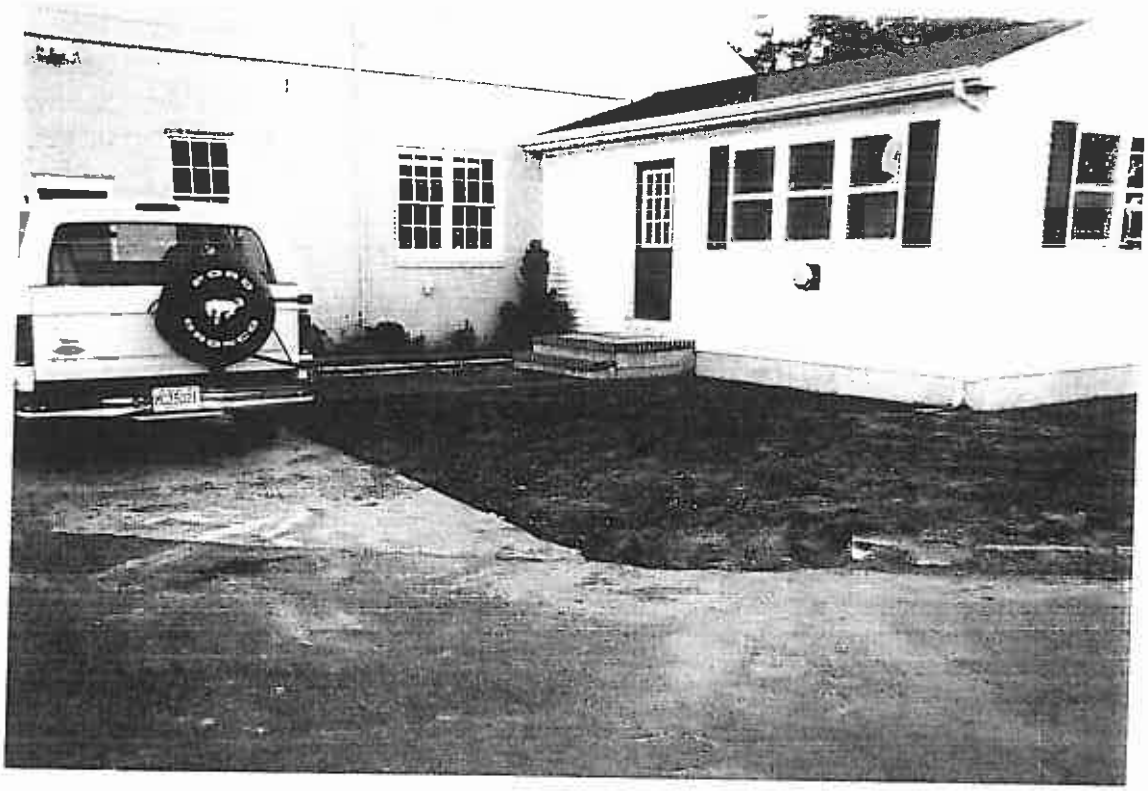


Photo #3: View of 1,000-gallon leaded gasoline tank excavation, facing northeast.

Photo #4: View of former leaded gasoline dispenser excavation.

Photo #5: View of 2,000-gallon diesel tank excavation, facing south.

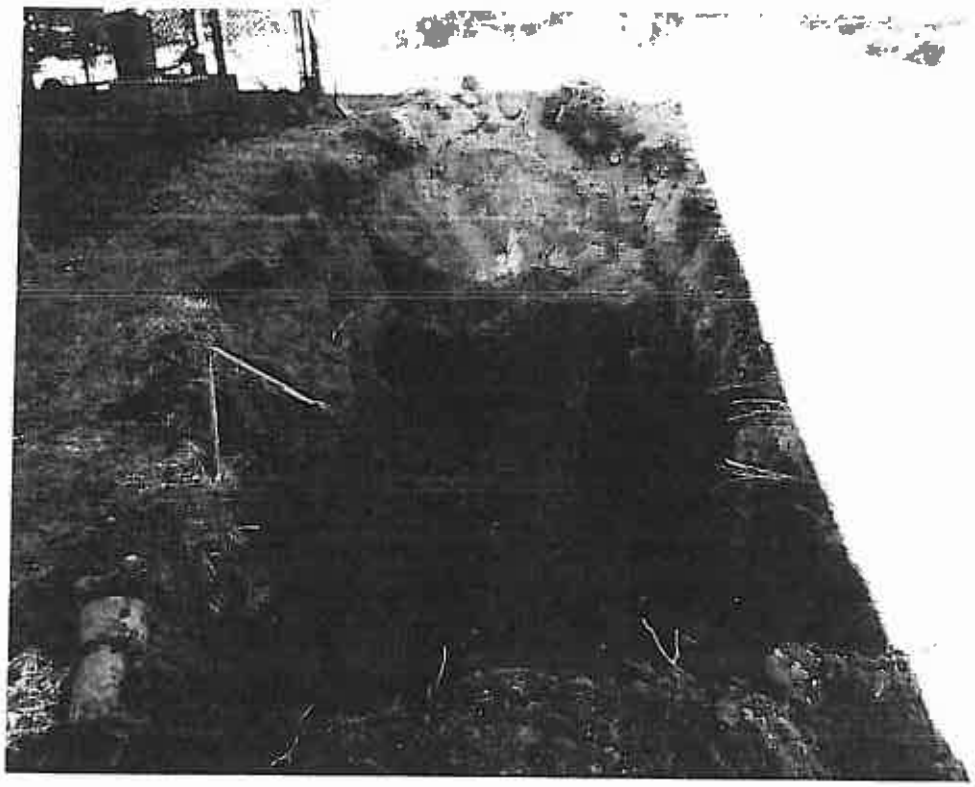


Photo #6: View of 1,000-gallon diesel tank excavation, facing west.

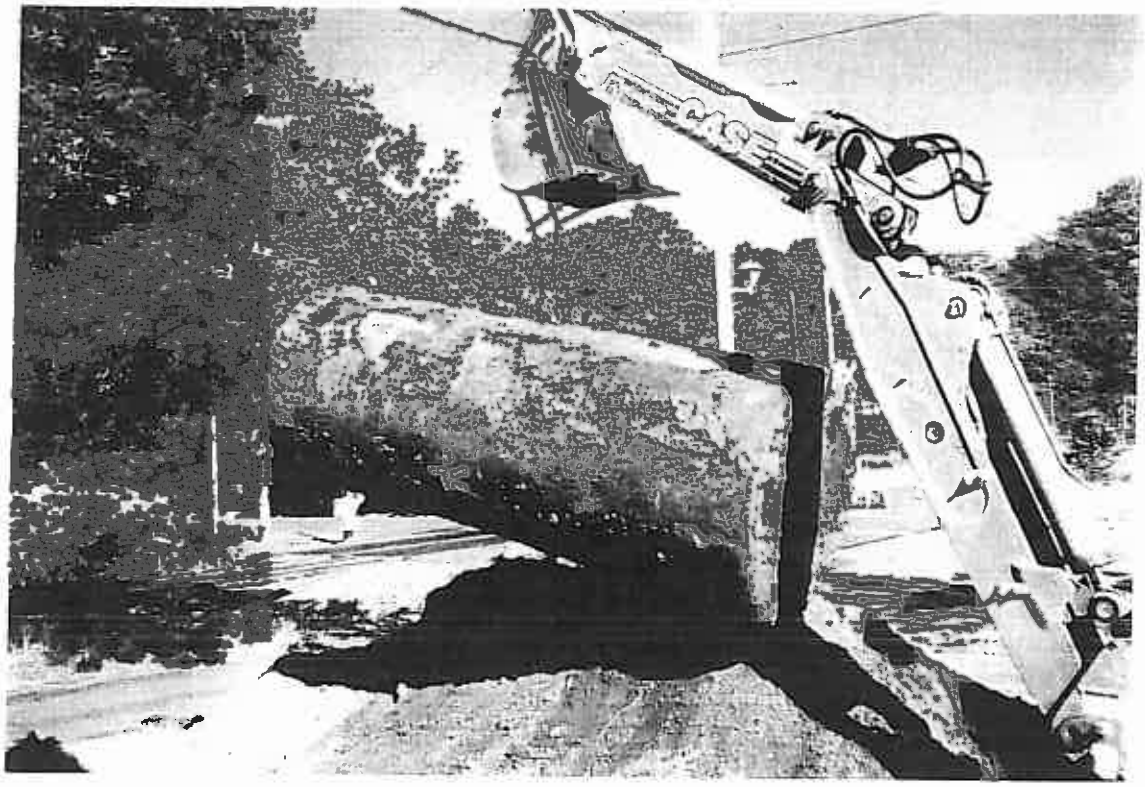


Photo #7: View of 1,000-gallon diesel tank excavation and tank, facing north.

Photo #8: View of 1,000-gallon unleaded gasoline tank excavation and tank, facing east.

Photo #9: View of tanks being cleaned for disposal. From left to right are; 1,000-gallon waste oil, 1,000-gallon leaded gasoline, 2,000-gallon diesel, 2,000-gallon fuel oil tank.

Photo #10: View of tanks. From left to right the first four are the same as above and the last two from left to right are the 1,000-gallon diesel and 1,000-gallon unleaded gasoline tank.

VOLUME 2 of 3

REMEDIAL INVESTIGATION REPORT

Borough of Spring Lake Department of Public Works
Fifth and Monmouth Avenues
Block 26, Lot 1
Spring Lake, Monmouth County, New Jersey
UST Registration #0097365
NJDEP Case #98-11-12-0857-49

December 9, 1998

T&M ASSOCIATES

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

October 1, 1998

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. H088 - SPLK-00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 08, 1998:

Lab No.	Client ID	Analysis Required
82660	WO-1	PHC
82661	WO-2	Priority Pollutants +40 w, PHC
82662	WO-3	PHC
82663	G1-1	PP VOA+15, Pb
82664	G1-2	PP VOA+15, Pb
82665	G1-3	PP VOA+15, Pb
82666	G1-4	PP VOA+15, Pb
82667	Trip_Blank	PP VOA+15

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

RECEIVED
OCT - 7 1998
T & M ASSOCIATES

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4079.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	120
Dibromochloromethane	ND	630
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	630
2-Chloroethyl Vinyl Ether	ND	630
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	160 J	630
Chlorobenzene	ND	630
Ethylbenzene	ND	500
Xylene (Total)	ND	630

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4079.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.7 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/16/98
Date Analyzed: 09/28/98
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r5787.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Phenol	ND	390
2-Chlorophenol	ND	390
2-Nitrophenol	ND	390
2,4-Dimethylphenol	ND	390
2,4-Dichlorophenol	ND	390
4-Chloro-3-methylphenol	ND	390
2,4,6-Trichlorophenol	ND	390
2,4-Dinitrophenol	ND	1600
4-Nitrophenol	ND	1600
4,6-Dinitro-2-methylphenol	ND	1600
Pentachlorophenol	ND	1600

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/16/98
Date Analyzed: 09/28/98
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r5787.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
N-Nitrosodimethylamine	ND	390
bis(2-Chloroethyl)ether	ND	39
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
bis(2-chloroisopropyl)ether	ND	390
N-Nitroso-di-n-propylamine	ND	39
Hexachloroethane	ND	39
Nitrobenzene	ND	39
Isophorone	ND	390
bis(2-Chloroethoxy)methane	ND	390
1,2,4-Trichlorobenzene	ND	39
Naphthalene	9.5J	390
Hexachlorobutadiene	ND	79
Hexachlorocyclopentadiene	ND	390
2-Chloronaphthalene	ND	390
Dimethylphthalate	ND	390
Acenaphthylene	15 J	390
2,6-Dinitrotoluene	ND	79
Acenaphthene	22 J	390
2,4-Dinitrotoluene	ND	79
Diethylphthalate	ND	390
4-Chlorophenyl-phenylether	ND	390
Fluorene	38 J	390
N-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	39
Phenanthrene	300 J	390
Anthracene	58 J	390
Di-n-butylphthalate	ND	390
Fluoranthene	390 J	390
Pyrene	360 J	390
Benzidine	ND	1600
Butylbenzylphthalate	ND	390

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/16/98
Date Analyzed: 09/28/98
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r5787.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	790
Benzo(a)anthracene	170	39
Chrysene	210 J	390
bis(2-Ethylhexyl)phthalate	ND	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	220	39
Benzo(k)fluoranthene	100	39
Benzo(a)pyrene	170	39
Indeno(1,2,3-cd)pyrene	120	39
Dibenz(a,h)anthracene	35 J	39
Benzo(g,h,i)perylene	110 J	390

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/16/98
Date Analyzed: 09/28/98
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r5787.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown	24.42	340	
2.	Unknown	25.64	540	
3.	Unknown	26.74	760	
4.	C20H12 PAH	26.91	370	
5.	Unknown Alkane	27.27	870	
6.	Unknown	27.31	900	
7.	Unknown	28.87	570	
8.	Unknown Alkane	29.59	970	
9.	Unknown	32.00	510	
10.	Unknown Alkane	33.01	740	
11.	Unknown	33.87	530	
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 7100

Client ID: WO-2
Site: SPLK-00060

Lab Sample ID: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/17/98
Date Analyzed: 09/18/98
GC Front Column: DB-1701
GC Rear Column: DB-608
Instrument ID: PESTGC6.i
Front File ID: nf003530.d
Rear File ID: nr003530.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 15

ORGANOCHLORINE PESTICIDES - GC/ECD
METHOD 8081A

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aldrin	ND	7.9	R
alpha-BHC	ND	7.9	R
beta-BHC	ND	7.9	R
delta-BHC	ND	7.9	R
gamma-BHC (Lindane)	ND	7.9	R
Chlordane	ND	79	R
4,4'-DDD	ND	7.9	R
4,4'-DDE	ND	7.9	R
4,4'-DDT	ND	7.9	R
Dieldrin	ND	7.9	R
Endosulfan I	ND	7.9	R
Endosulfan II	ND	7.9	R
Endosulfan sulfate	ND	7.9	R
Endrin	ND	7.9	R
Endrin aldehyde	ND	7.9	R
Heptachlor	ND	7.9	R
Heptachlor epoxide	ND	7.9	R
Toxaphene	ND	79	R

Client ID: **WO-2**
Site: SPLK-00060

Lab Sample ID: **82661**
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Extracted: 09/17/98
Date Analyzed: 09/19/98
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC7.i
Front File ID: of004358.d
Rear File ID: or004358.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 15

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg	Column
Aroclor-1016	ND	79	R
Aroclor-1221	ND	79	R
Aroclor-1232	ND	79	R
Aroclor-1242	ND	79	R
Aroclor-1248	ND	79	R
Aroclor-1254	ND	79	R
Aroclor-1260	ND	79	R
Aroclor-1262	ND	79	R
Aroclor-1268	ND	79	R

Client ID: WO-2
Site: SPLK-00060

Lab Sample No: 82661
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 15.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Antimony	ND	1.0	N*	P
Arsenic	1.0	0.66	B*	P
Beryllium	0.06	0.047	B	P
Cadmium	ND	0.094		P
Chromium	4.4	0.26		P
Copper	5.2	0.68	B	P
Lead	25.2	0.47	*	P
Mercury	0.02	0.020	B	CV
Nickel	1.1	0.50	BN*	P
Selenium	ND	0.99		P
Silver	ND	0.33		P
Thallium	ND	1.1		P
Zinc	34.9	0.92	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Site: SPLK-00060

Lab Job No: H088

Date Sampled: 9/8/98
Date Received: 9/8/98
Matrix: SOIL

Date Extracted: 9/9/98
Date Analyzed: 9/10/98
QA Batch: 4570

TOTAL PETROLEUM HYDROCARBONS (418.1)

Envirotech Sample #	Client ID	% Moisture	Dilution Factor	Analytical Result mg/kg (Dry Wt.)
82660	WO-1	14.0	1.0	33.4
82661	WO-2	15.2	1.0	47.6
82662	WO-3	13.2	1.0	30.6

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 25.0 mg/kg for an undiluted sample.

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4078.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	680
Bromomethane	ND	680
Vinyl Chloride	ND	680
Chloroethane	ND	680
Methylene Chloride	ND	410
Trichlorofluoromethane	ND	680
1,1-Dichloroethene	ND	270
1,1-Dichloroethane	ND	680
trans-1,2-Dichloroethene	ND	680
cis-1,2-Dichloroethene	ND	680
Chloroform	ND	680
1,2-Dichloroethane	ND	270
1,1,1-Trichloroethane	ND	680
Carbon Tetrachloride	ND	270
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	680
Trichloroethene	ND	140
Dibromochloromethane	ND	680
1,1,2-Trichloroethane	ND	410
Benzene	ND	140
trans-1,3-Dichloropropene	ND	680
2-Chloroethyl Vinyl Ether	ND	680
Bromoform	ND	540
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	140 J	680
Chlorobenzene	ND	680
Ethylbenzene	78 J	540
Xylene (Total)	340 J	680

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4078.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.94	1400	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	1400

Client ID: G1-1
Site: SPLK-00060

Lab Sample No: 82663
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	431	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-2
Site: SPLK-00060

Lab Sample No: 82664
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4077.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	700
Bromomethane	ND	700
Vinyl Chloride	ND	700
Chloroethane	ND	700
Methylene Chloride	ND	420
Trichlorofluoromethane	ND	700
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	700
trans-1,2-Dichloroethene	ND	700
cis-1,2-Dichloroethene	ND	700
Chloroform	ND	700
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	700
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	700
Trichloroethene	ND	140
Dibromochloromethane	ND	700
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	700
2-Chloroethyl Vinyl Ether	ND	700
Bromoform	ND	560
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	700
Chlorobenzene	ND	700
Ethylbenzene	ND	560
Xylene (Total)	ND	700

Client ID: **G1-2**
Site: SPLK-00060

Lab Sample No: **82664**
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4077.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 14.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.93	760	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
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21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	760

Client ID: G1-2
Site: SPLK-00060

Lab Sample No: 82664
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 14.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	80.3	3.9		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4076.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	710
Bromomethane	ND	710
Vinyl Chloride	ND	710
Chloroethane	ND	710
Methylene Chloride	ND	420
Trichlorofluoromethane	ND	710
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	710
trans-1,2-Dichloroethene	ND	710
cis-1,2-Dichloroethene	ND	710
Chloroform	ND	710
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	710
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	710
Trichloroethene	ND	140
Dibromochloromethane	ND	710
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	710
2-Chloroethyl Vinyl Ether	ND	710
Bromoform	ND	560
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	710
Chlorobenzene	ND	710
Ethylbenzene	ND	560
Xylene (Total)	ND	710

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4076.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
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20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: G1-3
Site: SPLK-00060

Lab Sample No: 82665
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.5

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	274	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4075.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	650
Bromomethane	ND	650
Vinyl Chloride	ND	650
Chloroethane	ND	650
Methylene Chloride	ND	390
Trichlorofluoromethane	ND	650
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	650
trans-1,2-Dichloroethene	ND	650
cis-1,2-Dichloroethene	ND	650
Chloroform	ND	650
1,2-Dichloroethane	ND	260
1,1,1-Trichloroethane	ND	650
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	650
Trichloroethene	ND	130
Dibromochloromethane	ND	650
1,1,2-Trichloroethane	ND	390
Benzene	ND	130
trans-1,3-Dichloropropene	ND	650
2-Chloroethyl Vinyl Ether	ND	650
Bromoform	ND	520
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	650
Chlorobenzene	ND	650
Ethylbenzene	ND	520
Xylene (Total)	ND	650

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4075.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Unknown Siloxane	15.93	1600	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	1600

Client ID: G1-4
Site: SPLK-00060

Lab Sample No: 82666
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98

Matrix: SOLID
Level: LOW
% Moisture: 16.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	258	4.0		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: Trip_Blank
Site: SPLK-00060

Lab Sample No: 82667
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4074.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620

Client ID: **Trip Blank**
Site: SPLK-00060

Lab Sample No: **82667**
Lab Job No: H088

Date Sampled: 09/08/98
Date Received: 09/08/98
Date Analyzed: 09/19/98
GC Column: DB624
Instrument ID: VOAMS5.i
Lab File ID: e4074.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: 4088

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Page 1 of 2

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: 4094

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 10/1/94

VOLUME 3 of 3

REMEDIAL INVESTIGATION REPORT

Borough of Spring Lake Department of Public Works
Fifth and Monmouth Avenues
Block 26, Lot 1
Spring Lake, Monmouth County, New Jersey
UST Registration #0097365
NJDEP Case #98-11-12-0857-49

December 9, 1998

TM ASSOCIATES
Consulting Engineers • Planners • Surveyors

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

September 28, 1998

T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. H118 - SPLK-00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 09, 1998:

Lab No.	Client ID	Analysis Required
82805	D1-1	PHC
82806	D1-2	PHC
82807	D1-3	PHC
82808	D1-4	PHC
82809	D1-5	PHC
82810	FO-1	PHC
82811	FO-2	PHC
82812	FO-3	PHC
82813	FO-4	PHC
82814	FO-5	PHC

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

OCT - 1 1998

Michael J. Urban
Laboratory Manager

ENVIROTECH RESEARCH, INC.

Site: SPLK-00060

Lab Job No: H118

Date Sampled: 9/9/98
Date Received: 9/9/98
Matrix: SOIL

Date Extracted: 9/10/98
Date Analyzed: 9/11/98
QA Batch: 4582

TOTAL PETROLEUM HYDROCARBONS (418.1)

Envirotech Sample #	Client ID	% Moisture	Dilution Factor	Analytical Result mg/kg (Dry Wt.)
82805	D1-1	13.3	1.0	161
82806	D1-2	13.0	1.0	150
82807	D1-3	15.3	1.0	37.9
82808	D1-4	15.7	1.0	33.2
82809	D1-5	7.2	1.0	297
82810	FO-1	5.6	1.0	50.5
82811	FO-2	3.8	1.0	31.5
82812	FO-3	14.4	1.0	74.3
82813	FO-4	5.8	1.0	72.1
82814	FO-5	9.6	1.0	82.7

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 25.0 mg/kg for an undiluted sample.

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: 4118

Volatile Organics Analysis:

All data conforms with method requirements _____; or
Analysis was not requested ___✓___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ___✓___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ___✓___; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: 4118

Metals Analysis:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ✓; or
Analysis was not requested ____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

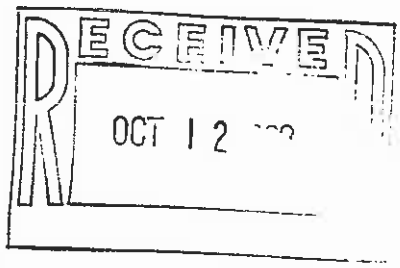
See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 9/28/98

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

October 5, 1998



T&M Associates
11 Tindall Road
Middletown, NJ 07748

Attention: Mr. John Vanderslice

Re: Job No. H210 - SPLK-00060

Dear Mr. Vanderslice:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 11, 1998:

Lab No.	Client ID	Analysis Required
83553	D2-1	PHC
83554	D2-2	PHC
83555	D2-3	PHC
83556	D2-4	PHC
83557	G2-1	PP VOA+10, Pb
83558	G2-2	PP VOA+10, Pb
83559	G2-3	PP VOA+10, Pb
83560	G2-4	PP VOA+10, Pb
83561	Trip_Blank	PP VOA+10
83562	F02-1	PHC
83563	F02-2	PHC
83564	G1-5	PP VOA+10, Pb

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

ENVIROTECH RESEARCH, INC.

Client ID: G2-1
Site: SPLK-00060

Lab Sample No: 83557
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7365.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 6

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	700
Bromomethane	ND	700
Vinyl Chloride	ND	700
Chloroethane	ND	700
Methylene Chloride	ND	420
Trichlorofluoromethane	ND	700
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	700
trans-1,2-Dichloroethene	ND	700
cis-1,2-Dichloroethene	ND	700
Chloroform	ND	700
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	700
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	700
Trichloroethene	ND	140
Dibromochloromethane	ND	700
1,1,2-Trichloroethane	ND	420
Benzene	ND	140
trans-1,3-Dichloropropene	ND	700
2-Chloroethyl Vinyl Ether	ND	700
Bromoform	ND	560
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	220 J	700
Chlorobenzene	ND	700
Ethylbenzene	ND	560
Xylene (Total)	340 J	700

ENVIROTECH RESEARCH, INC.

Client ID: G2-1
Site: SPLK-00060

Lab Sample No: 83557
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7365.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.6 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 6.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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19.				
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23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

ENVIROTECH RESEARCH, INC.

Client ID: G2-1
Site: SPLK-00060

Lab Sample No: 83557
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 6.5

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	21.0	3.6	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: G2-2
Site: SPLK-00060

Lab Sample No: 83558
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7366.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	370
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	370
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	490
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	120 J	620
Chlorobenzene	ND	620
Ethylbenzene	ND	490
Xylene (Total)	99 J	620

ENVIROTECH RESEARCH, INC.

Client ID: G2-2
Site: SPLK-00060

Lab Sample No: 83558
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7366.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: G2-2
Site: SPLK-00060

Lab Sample No: 83558
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 7.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	23.4	3.6	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH, INC.

Client ID: G2-3
Site: SPLK-00060

Lab Sample No: 83559
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7367.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	660
Bromomethane	ND	660
Vinyl Chloride	ND	660
Chloroethane	ND	660
Methylene Chloride	ND	400
Trichlorofluoromethane	ND	660
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND	660
trans-1,2-Dichloroethene	ND	660
cis-1,2-Dichloroethene	ND	660
Chloroform	ND	660
1,2-Dichloroethane	ND	260
1,1,1-Trichloroethane	ND	660
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	660
Trichloroethene	ND	130
Dibromochloromethane	ND	660
1,1,2-Trichloroethane	ND	400
Benzene	ND	130
trans-1,3-Dichloropropene	ND	660
2-Chloroethyl Vinyl Ether	ND	660
Bromoform	ND	530
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	120 J	660
Chlorobenzene	ND	660
Ethylbenzene	ND	530
Xylene (Total)	130 J	660

ENVIROTECH RESEARCH, INC.

Client ID: G2-3
Site: SPLK-00060

Lab Sample No: 83559
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7367.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
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20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

ENVIROTECH RESEARCH, INC.

Client ID: G2-3
Site: SPLK-00060

Lab Sample No: 83559
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 7.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	18.6	3.6	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: G2-4
Site: SPLK-00060

Lab Sample No: 83560
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7368.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	750
Bromomethane	ND	750
Vinyl Chloride	ND	750
Chloroethane	ND	750
Methylene Chloride	ND	450
Trichlorofluoromethane	ND	750
1,1-Dichloroethene	ND	300
1,1-Dichloroethane	ND	750
trans-1,2-Dichloroethene	ND	750
cis-1,2-Dichloroethene	ND	750
Chloroform	ND	750
1,2-Dichloroethane	ND	300
1,1,1-Trichloroethane	ND	750
Carbon Tetrachloride	ND	300
Bromodichloromethane	ND	150
1,2-Dichloropropane	ND	150
cis-1,3-Dichloropropene	ND	750
Trichloroethene	ND	150
Dibromochloromethane	ND	750
1,1,2-Trichloroethane	ND	450
Benzene	180	150
trans-1,3-Dichloropropene	ND	750
2-Chloroethyl Vinyl Ether	ND	750
Bromoform	ND	600
Tetrachloroethene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
Toluene	1900	750
Chlorobenzene	ND	750
Ethylbenzene	610	600
Xylene (Total)	3300	750

ENVIROTECH RESEARCH, INC.

Client ID: G2-4
Site: SPLK-00060

Lab Sample No: 83560
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7368.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Ethylmethylbenzene isomer	15.03	2300	
2.	Trimethylbenzene isomer	15.52	1300	
3.	Coeluting Aromatics	16.21	1000	
4.				
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8.				
9.				
10.				
11.				
12.				
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17.				
18.				
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22.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	4600

Client ID: G2-4
Site: SPLK-00060

Lab Sample No: 83560
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 8.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	95.3	3.7	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **Trip_Blank**
Site: SPLK-00060

Lab Sample No: **83561**
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7369.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620

ENVIROTECH RESEARCH, INC.

Client ID: **Trip Blank**
Site: SPLK-00060

Lab Sample No: **83561**
Lab Job No: H210

Date Sampled: 09/10/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7369.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
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21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Site: SPLK-00060

Lab Job No: H210

Date Sampled: 9/10/98-9/11/98
Date Received: 9/11/98
Matrix: SOIL

Date Extracted: 9/15/98
Date Analyzed: 9/15/98
QA Batch: 4588

TOTAL PETROLEUM HYDROCARBONS (418.1)

Envirotech Sample #	Client ID	% Moisture	Dilution Factor	Analytical Result mg/kg (Dry Wt.)
83553	D2-1	6.9	1.0	38.9
83554	D2-2	7.4	1.0	84.1
83555	D2-3	7.3	1.0	43.1
83556	D2-4	7.1	1.0	37.8
83562	F02-1	12.1	1.0	28.9
83563	F02-2	10.7	1.0	50.1

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 25.0 mg/kg for an undiluted sample.

ENVIROTECH RESEARCH, INC.

Client ID: **G1-5**
Site: SPLK-00060

Lab Sample No: **83564**
Lab Job No: H210

Date Sampled: 09/11/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7370.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 500.0
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6800
Bromomethane	ND	6800
Vinyl Chloride	ND	6800
Chloroethane	ND	6800
Methylene Chloride	ND	4100
Trichlorofluoromethane	ND	6800
1,1-Dichloroethene	ND	2700
1,1-Dichloroethane	ND	6800
trans-1,2-Dichloroethene	ND	6800
cis-1,2-Dichloroethene	ND	6800
Chloroform	ND	6800
1,2-Dichloroethane	ND	2700
1,1,1-Trichloroethane	ND	6800
Carbon Tetrachloride	ND	2700
Bromodichloromethane	ND	1400
1,2-Dichloropropane	ND	1400
cis-1,3-Dichloropropene	ND	6800
Trichloroethene	ND	1400
Dibromochloromethane	ND	6800
1,1,2-Trichloroethane	ND	4100
Benzene	ND	1400
trans-1,3-Dichloropropene	ND	6800
2-Chloroethyl Vinyl Ether	ND	6800
Bromoform	ND	5400
Tetrachloroethene	ND	1400
1,1,2,2-Tetrachloroethane	ND	1400
Toluene	ND	6800
Chlorobenzene	ND	6800
Ethylbenzene	4700 J	5400
Xylene (Total)	90000	6800

ENVIROTECH RESEARCH, INC.

Client ID: G1-5
Site: SPLK-00060

Lab Sample No: 83564
Lab Job No: H210

Date Sampled: 09/11/98
Date Received: 09/11/98
Date Analyzed: 09/22/98
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d7370.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.9 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 500.0
% Moisture: 7.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1.	Ethylmethylbenzene isomer	15.03	74000	
2.	Coeluting Aromatics	15.10	54000	
3.	Ethylmethylbenzene isomer	15.35	57000	
4.	Trimethylbenzene isomer	15.52	86000	
5.	Ethyldimethylbenzene isomer/alkane	15.77	55000	
6.	Ethyldimethylbenzene isomer/aromatic	16.20	140000	
7.	Ethyldimethylbenzene isomer	16.52	61000	
8.	Ethyldimethylbenzene isomer	16.61	54000	
9.	Ethyldimethylbenzene isomer	17.12	82000	
10.	2,3-dihydro-methyl-1H-Indene isomer	17.65	54000	
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION: 717000

ENVIROTECH RESEARCH, INC.

Client ID: **G1-5**
Site: **SPLK-00060**

Lab Sample No: 83564
Lab Job No: H210

Date Sampled: 09/11/98
Date Received: 09/11/98

Matrix: SOLID
Level: LOW
% Moisture: 7.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Lead	571	3.6	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

ENVIROTECH RESEARCH INC.
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): John Vanderslice	Samplers Name (Printed): Daniel Barrett	Site/Project Identification: SPLK-00060
Company: T+M Associates	P.O. #	State (Location of site): NJ: [X] NY: [ ] Other:
Address: 11 Tindall Road	Analysis Turnaround Time: Standard [X]	Regulatory Program:
City: Middletown NJ	Rush Charges Authorized For: 2 Week [ ] 1 Week [ ] Other [ ]	
Phone: 671 6400 Fax:		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH	VOA+10 (modified)	Lead	LAB USE ONLY Sample Numbers
D2-1	9/10/98	10:30	soil	2	X	C		83553
D2-2		10:37			X	C		83554
D2-3		10:45			X	C		83555
D2-4		10:50			X	C		83556
G2-1		12:15				X	Y	83557
G2-2		12:22				Y	Y	83558
G2-3		12:30				X	Y	83559
G2-4		12:40				X	Y	83560
Triplank				1		X		83561

LAB USE ONLY: Project No: ____ Job No: #210

Preservation Used: (ICE) = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH Soil: Water:
6 = Other _____, 7 = Other _____

Special Instructions C = Contingent analysis, Please submit TPH results to John Vanderslice before running volatiles Water Metals Filtered (Yes/No)? ____

Relinquished by	Company	Date / Time	Received by	Company
1) Daniel Barrett	T+M Associates	9/11/98 1433	1) [signature]	HOWARD SCHOLZ ENVIROTECH RESEARCH INC
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

all contingents canceled as per Dan Barrett 9/17 PS

ENVIROTECH RESEARCH INC.
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): John Vandersliee	Samplers Name (Printed): Daniel Barrett	Site/Project Identification: SPLK-0006
Company: T&M Associates	P.O. #	State (Location of site): NJ: ☒ NY: ☐ Other:
Address: 11 Tindall Road	Analysis Turnaround Time: Standard ☒	Regulatory Program:
City: Middletown NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 671 6400 Fax:		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH	VOA (Water)	Lead	LAB USE ONLY Sample Numbers
FO2-1	9/11/98	10:20	Soil	2	X	C		83562
FO2-2	↓	10:31	↓	↓	X	C		83563
~~FO2-3~~	↓	10:45	↓	↓	X	C		No Sample
61-5	9/11/98	13:00	Sol	2		X	X	83564

LAB USE ONLY: Project No: ____ Job No: H210

Preservation Used: ~~1 = ICE~~, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other ____, 7 = Other ____
Soil: ____ Water: ____

Special Instructions C = Contingent analysis - Please submit TPH results before analyzing for VOA+10. Water Metals Filtered (Yes/No)? ____

Relinquished by	Company	Date / Time	Received by	Company
1) Dan Barrett	T&M Associates	9/11/98 1433	1)	HOWARD SCHULZE ENVIROTECH RESEARCH INC.
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12543), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: H210

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

See continuation page if checked ( )

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: H210

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

_____

_____

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

_____

_____

_____

See continuation page if checked ( )

Signature of
Laboratory Manager: _____ Date: 10/5/98

UST-N13, 12/97

FOR NJDEP USE ONLY

RECEIVED DATE JUL - 6 1998

NOTIFICATION # N98-1101

NJDEP APPROVAL:

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF FIELD OPERATIONS
401 EAST STATE STREET
P.O. Box 435
TRENTON, NEW JERSEY 08625-0435

30 DAY NOTICE OF INTENT TO CLOSE AN UNDERGROUND STORAGE TANK SYSTEM

Submission of this notification satisfies the requirements of N.J.A.C. 7:14B-9.2. An Underground Storage Tank Facility Questionnaire must be completed and submitted to the Department upon completion of the closure activities.

Do not use this form to notify the Department of a request for a variance from the Technical Requirements of Site Remediation, N.J.A.C. 7:26E. Instead, use a Closure Plan Approval Application, UST-013, 02/95.

- **Please type or print legibly in ink.** Call 609/633-0708 for help in completing this notification.
- Please sign and return one original of this form to the address above.
- The UST system must be registered. If the UST system is **not registered** this form will not be processed.

Facility Registration # 0 097365 Underground Storage Tank(s) and/or piping will be removed August 4, 1998

A. FACILITY NAME Spring Lake Public Works Yard

FACILITY STREETADDRESS Monmouth Avenue and Fifth Avenue

MUNICIPALITY Spring Lake COUNTY Monmouth

TELEPHONE NUMBER (732) 449 0800

B. OWNER'S NAME Borough of Spring Lake

STREET ADDRESS Fifth and Warren Avenue CITY Spring Lake

STATE NJ ZIP 07762 TELEPHONE NUMBER (732) 449 0800

C. OPERATOR'SNAME SAME

STREET ADDRESS_____CITY_____

STATE _____ZIP_____TELEPHONE NUMBER_____

D. Indicate below name and certification number of the firm performing the UST service:

1. FOR UST CLOSURE (PHYSICAL REMOVAL OR ABANDONMENT) ACTIVITIES.

Name of Certified Firm **T&M Associates** **CERTIFICATION# 1300443**

2. FOR SUBSURFACE (SITE INVESTIGATION, CORRECTIVE ACTION ETC.) ACTIVITIES.

Name of Certified Firm **T&M Associates** CERTIFICATION **# 1300443**

E. Check Proposed Activity

__X__ **1. Closure of Underground Storage Tank System**

Complete the following information concerning UST system to be removed or abandoned-in-place. Check here and attach additional page(s) if needed. ___If piping only please enter NA in Number of Tanks field and Tank Capacity field.

Number of Tanks	length of appurtenant piping (ft)	Tank Capacity (gallons)	SUBSTANCE Stored*	Closure Type (circle one)
1	25	1,000	Unleaded Gasoline	Removal
1	10	1,000	Leaded Gasoline	Removal
1	10	1,000	No. 2 Diesel	Removal
1	5	1,500	Waste Oil	Removal
1	5	2,000	No. 2 Diesel	Removal

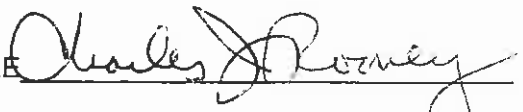
* If material is not a petroleum product, use chemical name and CAS number to identify tank's content. (Brand or trade names are unacceptable.)

_____ 2. **Change in Service from a Regulated to a Nonregulated Substance**

The owner or operator must submit to the Department (1) documentation that the owner/operator of the

underground storage tank (UST) system has emptied and cleaned the UST system by removing all liquid and accumulated sludge prior to the change in storage in accordance with N.J.A.C. 7:14B-9.4(a) and (2) the results of a site investigation or a remedial investigation conducted in accordance with N.J.A.C. 7:14B-9.4(a) or 7:14B-9.4(b), whichever is appropriate. Additionally, the owner/operator must submit a Facility Questionnaire indicating the change to the Bureau of State Case Management, Registration & Billing Section.

This Notification has been submitted by:

NAME (print or type) Charles J. Rooney SIGNATURE 

TITLE: Borough of Spring Lake Engineer DATE: June 30, 1998

Company: T & M ASSOCIATES Phone Number 732-671-6400

Address: 11 Tindall Road

City Middletown, State New Jersey ZIP 07748